



Kerr-McGee Oil & Gas Onshore LP
1999 Broadway, Suite 3700
Denver, CO 80205

July 21, 2008

Mrs. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 921-15C2S
T9S-R21E
Section 15: NENW
Surface: 834' FNL, 2620' FWL
Bottom Hole: 1306' FNL, 1427' FWL
Uintah County, Utah

Dear Mrs. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 921-15C2S is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Jason K. Rayburn
Landman

A handwritten signature in black ink, appearing to read 'Jason K. Rayburn', is written over the printed name and title.

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DIV. OF OIL, GAS & MINING



July 22, 2008

RE: NBU 921-15F2S

Kerr-McGee Oil & Gas Onshore, LP, respectfully submits the following revisions to NBU 921-15F2S, specifically changing the name of this location from NBU 921-15F2S to NBU 921-15C2S.

If you have any questions, do not hesitate to contact me at 720.929.6226.

Cordially,

A handwritten signature in black ink, appearing to read 'Kevin McIntyre'.

Kevin McIntyre
Regulatory Analyst

Kevin.McIntyre@anadarko.com

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JUL 23 2008
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

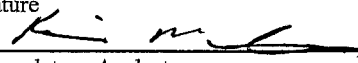
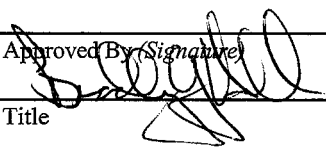
APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-01188
1b. Type of Well: <input type="checkbox"/> <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name UTE Tribe
2. Name of Operator Kerr-McGee Oil & Gas Onshore, LP		7. If Unit or CA Agreement, Name and No. 891008900A
3a. Address P.O. Box 173779 Denver, CO 80217-3779		8. Lease Name and Well No. NBU 921-15C2S
3b. Phone No. (include area code) 720.929.6226		9. API Well No. 43047-40252
4. Location of well (Report location clearly and in accordance with any State requirements. *) At surface 834 FNL 2620 NE NW Lat. 40.041128 Long. -109.537297 At proposed prod. zone 1306 FNL 1427 FWL NE NW 40.039831 -109.541561		10. Field and Pool, or Exploratory Natural Buttes Field
11. Sec., T., R., M., or Blk. and Survey or Area Sec. 15, T 9S, R 21E		
14. Distance in miles and direction from the nearest town or post office* 12.9 miles southeast of Ouray, Utah		12. Cou State Utah
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 834'	16. No. of acres in lease 800	17. Spacing Unit dedicated to this well 40
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 50'	19. Proposed Depth 10,285'	20. BLM/ BIA Bond No. on file RLB0005239
21. Elevations (Show whether DF, RT, GR, etc.) 4,792' GR	22. Aproximate date work will start* Upon Approval	Esti mat 10 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by existing bond on file (see item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Land SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/ or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/ Typed) Kevin McIntyre
Title Regulatory Analyst	
Approved By (Signature)  07-31-08	Name (Printed/ Typed) BRADLEY G. HILL
Title Environmental Manager	Office ENVIRONMENTAL MANAGER

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

820f 40.041076 BFL 624429X
624790X 4432980Y
44331314 109.537256 40.039772
-109.541517

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*(Instructions on page 2)

T9S, R21E, S.L.B.&M.

2006 Alum.
Cap, 0.4'
High, Pile of
Stones

S89°58'23"E - 2640.98' (Meas.)

S89°38'30"E - 2645.84' (Meas.)

2006 Alum.
Cap, 0.6'
High, Pile of
Stones

2006 Alum.
Cap, 2.0'
High, Pile of
Stones

N00°13'14"E - 2658.16' (Meas.)

N00°01'41"W - 2646.50' (Meas.)

2620'

1306'

S68°27'03"W
1284.72'

NBU #921-15C2S
Elev. Ungraded Ground = **4792'**

1427'

Bottom Hole

5/8" Rebar,
Marked 1/4
Stone (Loose)
Pile of Stones

15

Set Marked
Stone, "X"
Marked on Top
of Stone

N00°17'27"W - 2632.19' (Meas.)

N00°02'04"E - 2639.54' (Meas.)

2006 Alum.
Cap, 0.6'
High, Steel
Post

2006 Alum.
Cap, 0.3'
High, Set
Stone

Large Pile
of Stones,
Notched Stone
(Not Set)

N89°35'07"W - 2643.03' (Meas.)

S89°52'10"W - 2640.71' (Meas.)

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°02'23.26" (40.039794)	LATITUDE = 40°02'27.93" (40.041092)
LONGITUDE = 109°32'32.10" (109.542250)	LONGITUDE = 109°32'16.75" (109.537986)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°02'23.39" (40.039831)	LATITUDE = 40°02'28.06" (40.041128)
LONGITUDE = 109°32'29.62" (109.541561)	LONGITUDE = 109°32'14.27" (109.537297)

Kerr-McGee Oil & Gas Onshore LP

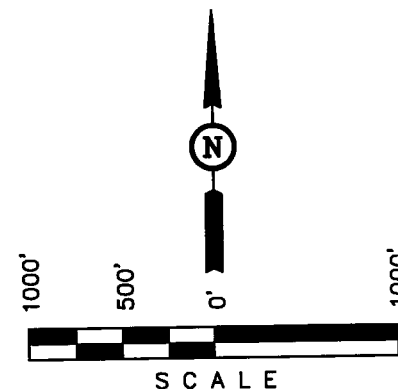
Well location, NBU #921-15C2S, located as shown in the NE 1/4 NW 1/4 of Section 15, T9S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE MAP WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 07-17-08

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 05-14-08	DATE DRAWN: 05-21-08
PARTY L.K. N.W. C.C.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE Kerr-McGee Oil & Gas Onshore LP	

**NBU 921-15C2S
NENW Sec. 15, T9S,R21E
UINTAH COUNTY, UTAH
UTU-01188**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1712'
Bird's Nest	2039'
Mahogany	2420'
Wasatch	5116'
Mesaverde	8044'
MVU2	9004'
MVL1	9579'
TVD	10,100'
TD	10,285'

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1712'
	Bird's Nest	2039'
	Mahogany	2420'
Gas	Wasatch	5116'
Gas	Mesaverde	8044'
Gas	MVU2	9004'
Gas	MVL1	9579'
Water	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment (Schematic Attached)

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

4. Proposed Casing & Cementing Program:

Please see the Natural Buttes Unit SOP.

5. Drilling Fluids Program:

Please see the Natural Buttes Unit SOP.

6. **Evaluation Program:**

Please see the Natural Buttes Unit SOP.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,100' TVD, approximately equals 6262 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4040 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please see Natural Buttes Unit SOP.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet.

The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is

not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A

booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

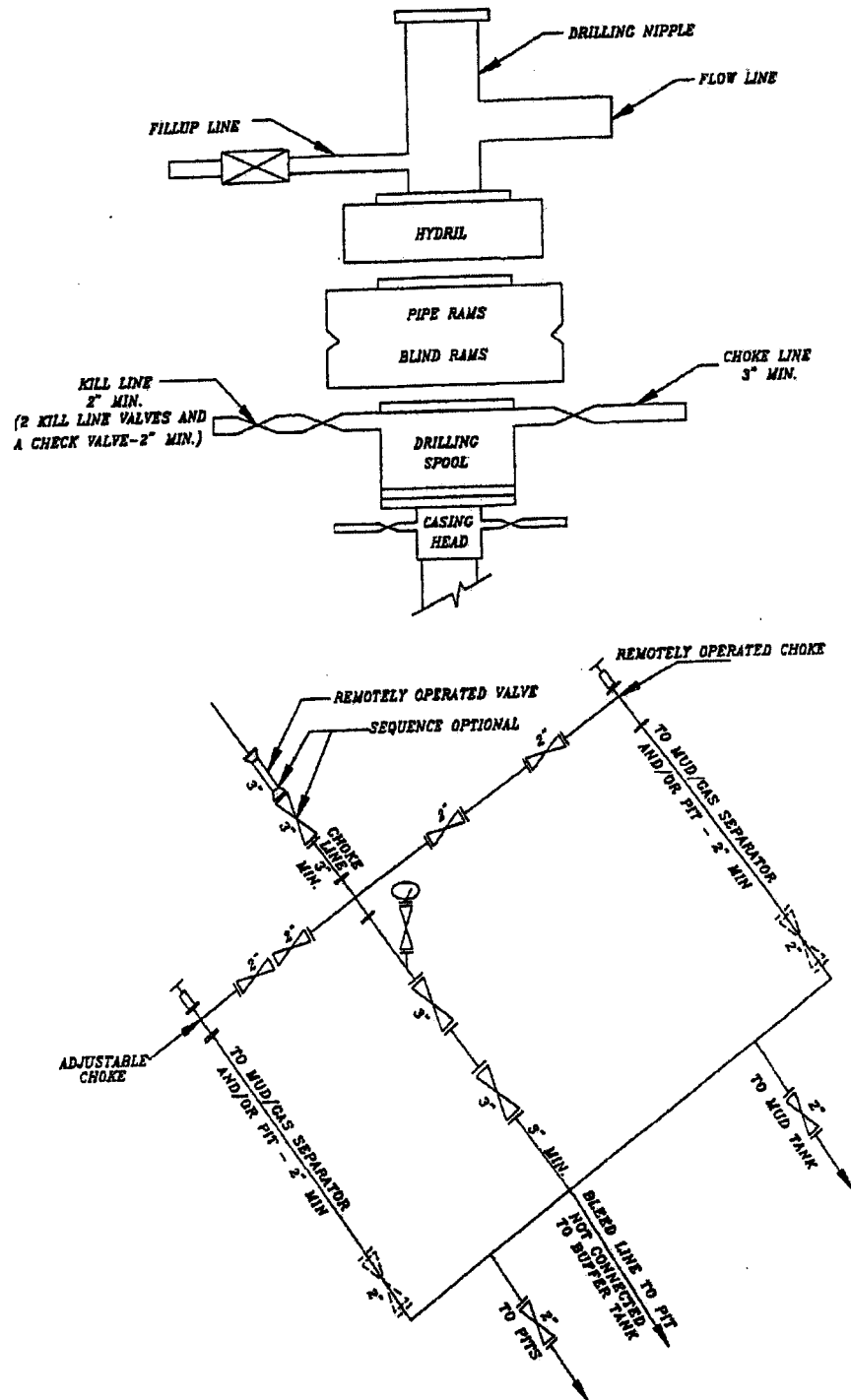
Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please see Natural Buttes Unit SOP.

EXHIBIT A



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

NBU 921-15C2S
NENW Sec. 15 ,T9S,R21E
UINTAH COUNTY, UTAH
UTU-01188

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:

No new access road is planned, as this is a twin location. Refer to Topo Map B.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

No new pipeline, as we will be utilizing the existing NBU #298 pipeline. No TOPO D attached.

Please see the Natural Buttes Unit SOP.

Variances to Best Management Practices (BMPs) Requested:

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

Interim Surface Reclamation Plan:

This exception is requested due to the current twin and multi-well program. If determined that this well will not be a candidate for either twinning &/or multi-well the operator shall spread the topsoil pile on the location up to the rig anchor points. The location will be reshaped to the

original contour to the extent possible. The operator will reseed the area using the BLM recommended seed mixture and reclamation methods.

5. **Location and Type of Water Supply:**

Please see the Natural Buttes SOP.

6. **Source of Construction Materials:**

Please see the Natural Buttes SOP.

7. **Methods of Handling Waste Materials:**

Please see the Natural Buttes SOP.

A plastic reinforced liner is to be used as discussed during on-site inspection. It will be a minimum of 20 mil thick and felt, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E, Pipeline Facility Sec. 36, T9S, R20E, Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E (*Request is in lieu of filing Form 3160-5, after initial production*).

8. **Ancillary Facilities:**

Please see the Natural Buttes SOP.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. Plans for Reclamation of the Surface:

Please see the Natural Buttes SOP.

upon reclamation of the pit the following seed mixture will be used. A total of 12 lbs/acre will be used if the seeds are drilled (24 lbs/acre if the seeds are broadcast). The per acre requirements for *drilled* seed are:

Crested Wheatgrass 12 lbs.

Operator shall call the BLM for the seed mixture when final reclamation occurs.

11. Surface/Mineral Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026
(435) 722-5141

The mineral ownership is listed below:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

12. Stipulations**Wildlife Stipulations:**

- Antelope Stipulations:
No construction from May 15 through June 20.

Critical Soils Stipulations:

No construction when wet.

13. Other Information:

A Class III archaeological survey and a paleontological survey have been performed and will be submitted.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

14. Lessee's or Operator's Representative & Certification:

Kevin McIntyre
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779
(720) 929-6226

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7018

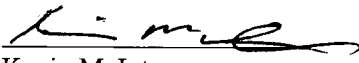
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Indian Affairs Nationwide Bond #RLB0005239, Bureau of Land Management Nationwide Bond #WYB000291 and State of Utah Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

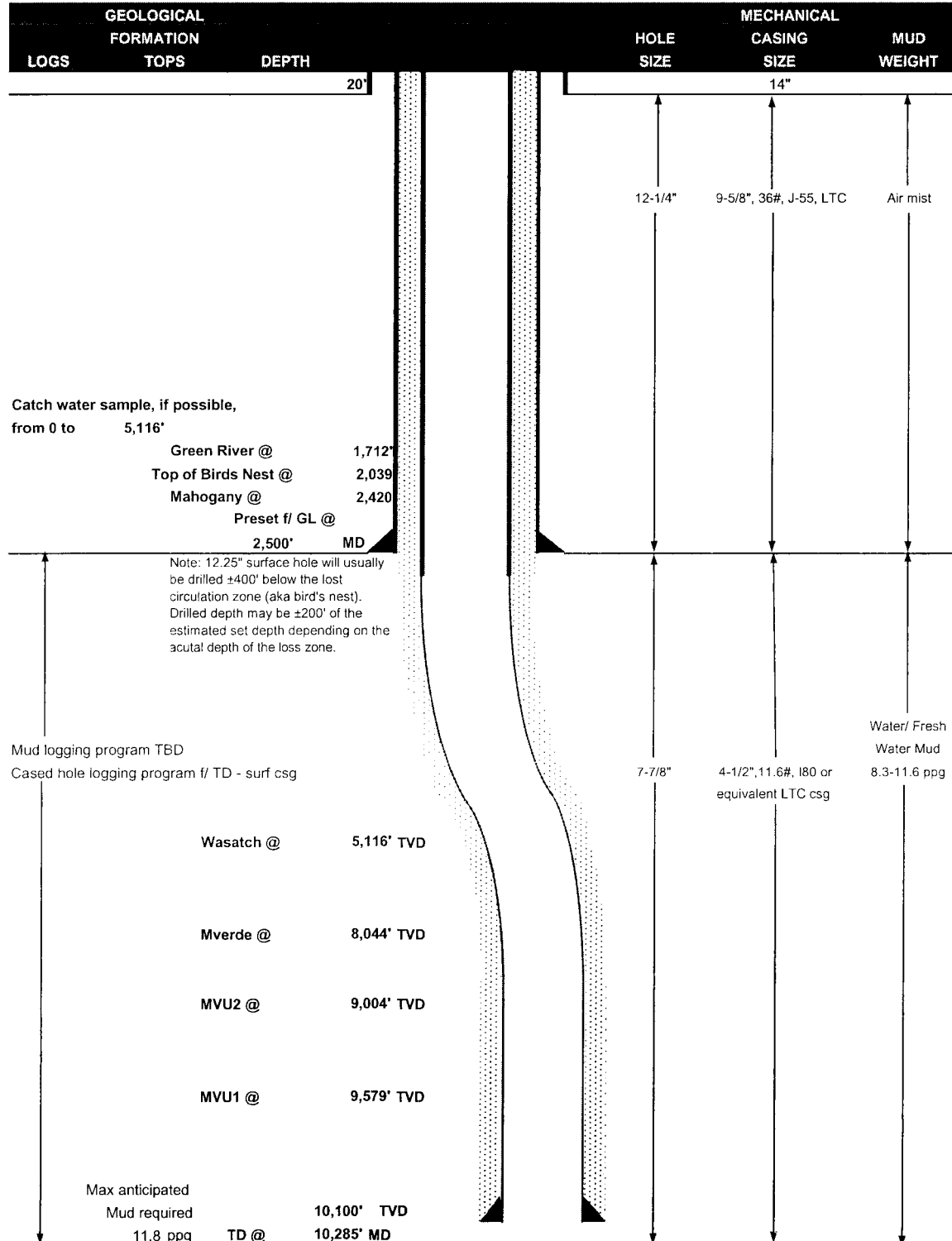

Kevin McIntyre

7/17/2008
Date



KERR-McGEE OIL & GAS ONSHORE LP **DRILLING PROGRAM**

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	July 17, 2008	
WELL NAME	NBU 921-15C2S		TD	10,100' TVD	10,285' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
				ELEVATION	4,792' GL KB 4,807'
SURFACE LOCATION	NENW 834' FNL & 2620' FWL, Sec. 15, T 9S R 21E				
	Latitude:	40.041128	Longitude:	-109.537297	NAD 27
BTM HOLE LOCATION	NENW 1306' FNL & 1427' FWL, Sec. 15, T 9S R 21E				
	Latitude:	40.039831	Longitude:	-109.541561	NAD 27
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), BIA(SURFACE), UDOGM, Tri-County Health Dept.				



ERR-McGEE OIL & GAS ONSHORE LF DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3520	2020	453000
SURFACE	9-5/8"	0 to 2500	36.00	J-55	LTC	0.89	1.73	6.41
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 10100	11.60	I-80	LTC	1.96	1.02	1.93

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
- (Burst Assumptions: TD = 11.8 ppg) .22 psi/ft = gradient for partially evac wellbore
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)
- MASP 4040 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2			NOTE: If well will circulate water to surface, option 2 will be utilized				
	LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOW	360	35%	12.60	1.81
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,615'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	440	40%	11.00	3.38
	TAIL	5,670'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1390	40%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Brad Laney

DATE:

DRILLING SUPERINTENDENT:

Randy Bayne

DATE:

Kerr-McGee Oil & Gas Onshore LP

NBU #921-15D1S, #921-15C2S,
#921-15C4T & #921-15G2S
SECTION 15, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 3.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE EXISTING NBU #298 AND THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 43.9 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #921-15D1S, #921-15C2S, #921-15C4T & #921-15G2S

LOCATED IN UINTAH COUNTY, UTAH
SECTION 15, T9S, R21E, S.L.B.&M.

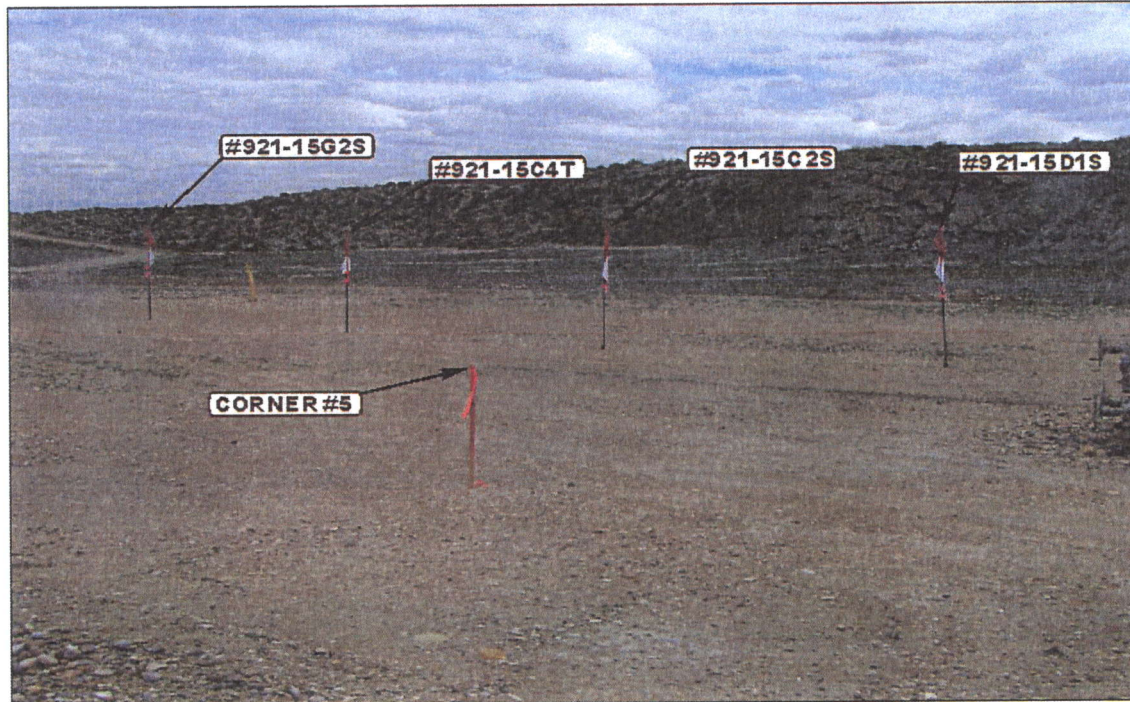


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: NORTHWESTERLY



- Since 1964 -

UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

05 21 08
MONTH DAY YEAR

PHOTO

TAKEN BY: L.K.

DRAWN BY: C.C.

REV: 07-17-08 C.C.

Kerr-McGee Oil & Gas Onshore LP

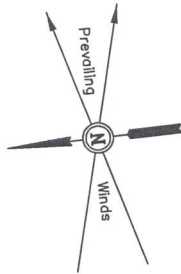
SITE PLAN LAYOUT FOR

NBU #921-15D1S, #921-15C2S, #921-15C4T & #921-15G2S

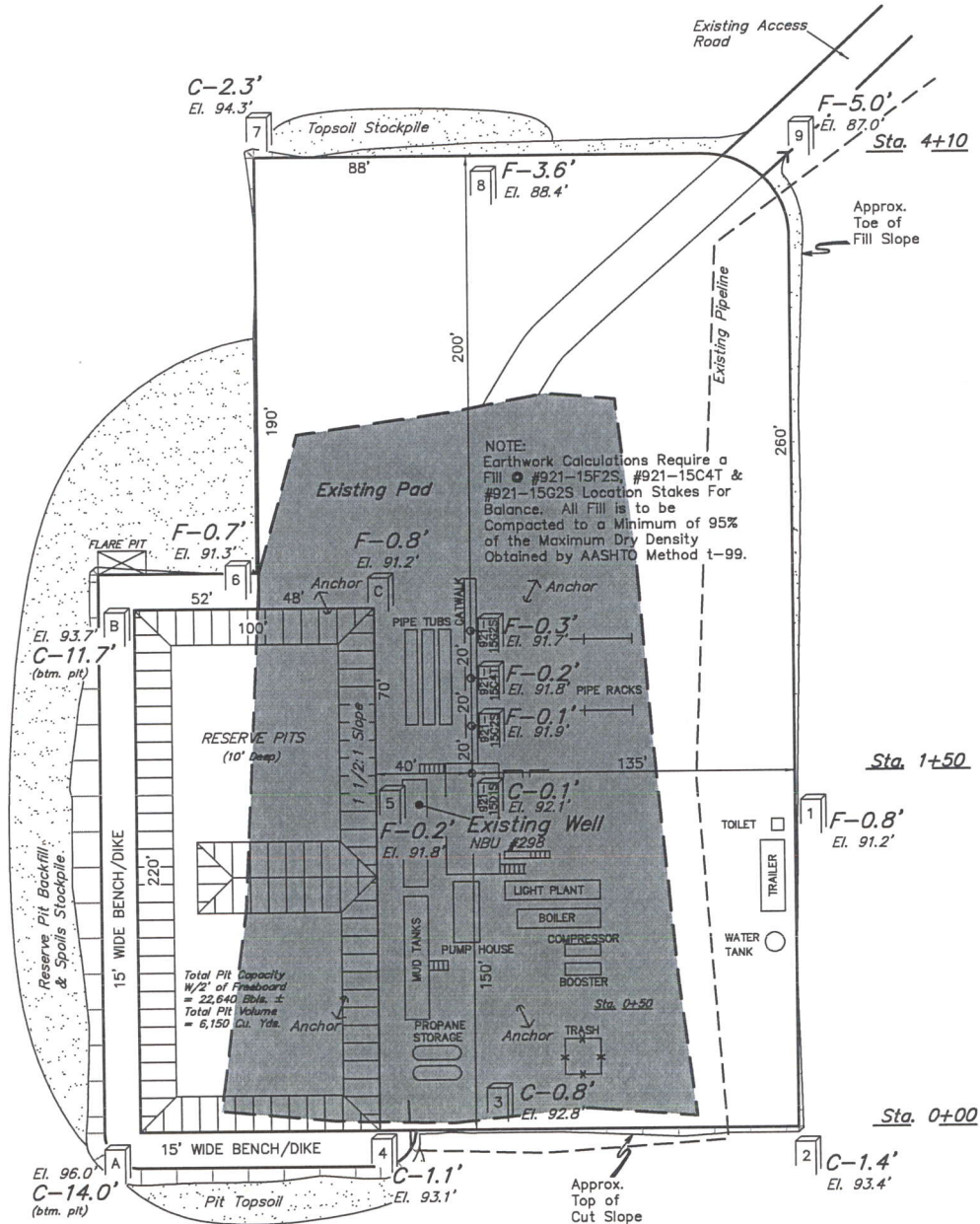
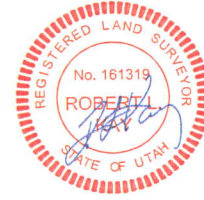
SECTION 15, T9S, R21E, S.L.B.&M.

N 1/2

FIGURE #1



SCALE: 1" = 50'
DATE: 05-21-08
Drawn By: C.C.
Revised: 07-17-08



NOTES:

Elev. Ungraded Ground At #921-15D1S Loc. Stake = 4792.1'
FINISHED GRADE ELEV. AT #921-15D1S LOC. STAKE = 4792.0'

Kerr-McGee Oil & Gas Onshore LP

TYPICAL CROSS SECTIONS FOR

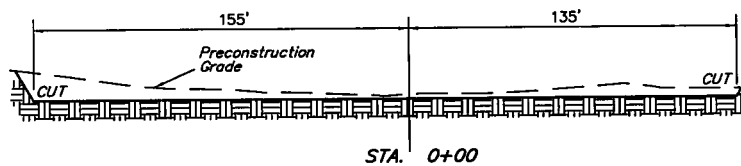
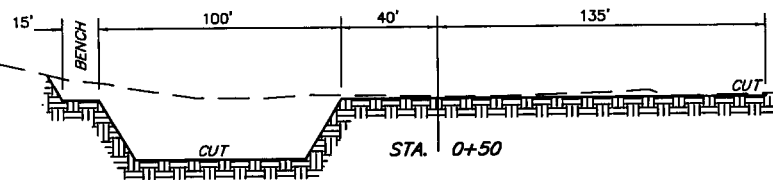
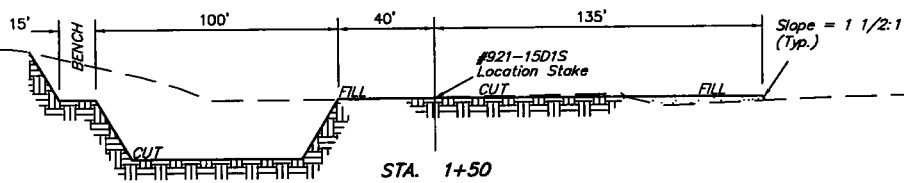
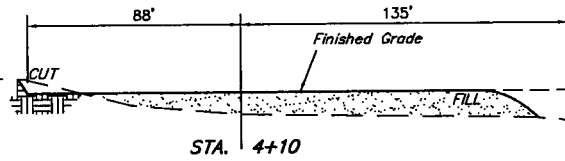
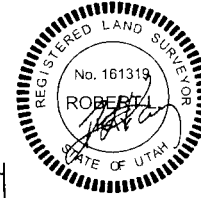
NBU #921-15D1S, #921-15C2S, #921-15C4T & #921-15G2S

SECTION 15, T9S, R21E, S.L.B.&M.

N 1/2

FIGURE #2

1" = 20'
X-Section
Scale
1" = 50'
DATE: 05-21-08
Drawn By: C.C.
Revised: 07-17-08



NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

CUT
(12") Topsoil Stripping = 2,190 Cu. Yds.
(New Construction Only)
Remaining Location = 7,310 Cu. Yds.
TOTAL CUT = 9,500 CU.YDS.
FILL = 5,120 CU.YDS.

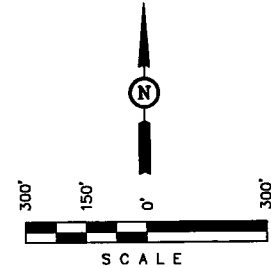
* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

EXCESS MATERIAL = 4,380 Cu. Yds.
Topsoil & Pit Backfill = 5,270 Cu. Yds.
(1/2 Pit Vol.)
DEFICIT UNBALANCE = <890> Cu. Yds.
(After Interim Rehabilitation)

Kerr-McGee Oil & Gas Onshore LP

**LOCATION SURFACE USE AREA
& ROAD RIGHT-OF-WAY
ON UTE TRIBAL LANDS**
(For NBU #921-15D1S, #921-15C2S,
#921-15C4T & #921-15G2S)

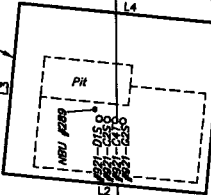
LOCATED IN
SECTION 15, T9S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH



SURFACE USE AREA
NBU #921-15D1S, #921-15C2S,
#921-15C4T & #921-15G2S
Contains 4.132 Acres

Ute
Tribal

Ute
Tribal



BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS

ROAD RIGHT-OF-WAY CONTAINED WITHIN SURFACE USE AREA.

SURFACE USE AREA DESCRIPTION

BEGINNING AT A POINT IN THE NW 1/4 NE 1/4 OF SECTION 15, T9S, R21E, S.L.B.&M. WHICH BEARS S24°05'39"E 655.59' FROM THE NORTH 1/4 CORNER OF SAID SECTION 15, THENCE S06°07'04"W 425.00'; THENCE N83°52'56"W 510.00'; THENCE N06°07'04"E 425.00'; THENCE S83°52'56"E 510.00' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 4.976 ACRES MORE OR LESS.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 181319
STATE OF UTAH

REVISED: 07-17-08

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH - 200 EAST • (435) 789-1017
VERNAL, UTAH - 84078

SCALE 1" = 300'	DATE 05-21-08
PARTY L.K. N.W. C.C.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE 4 8 6 4 6

LINE TABLE		
LINE	BEARING	LENGTH
L1	S06°07'04"W	425.00'
L2	N83°52'56"W	510.00'
L3	N06°07'04"E	425.00'
L4	S83°52'56"E	510.00'

▲ = SECTION CORNERS LOCATED.

S89°58'23"E - 2640.98' (Meas.)

S89°38'30"E - 2645.84' (Meas.)

2006 Alum.
Cap. 0.4"
High, Pile of
Stones

2006 Alum.
Cap. 0.6"
High, Pile of
Stones

NE Cor. Sec 15
2006 Alum. Cap.
2.0' High, Pile
of Stones

Section Line

1/16 Section Line

NW 1/4

NE 1/4

N007°31'4"E - 2658.16' (Meas.)

Section Line

1/16 Section Line

1/4 Section Line

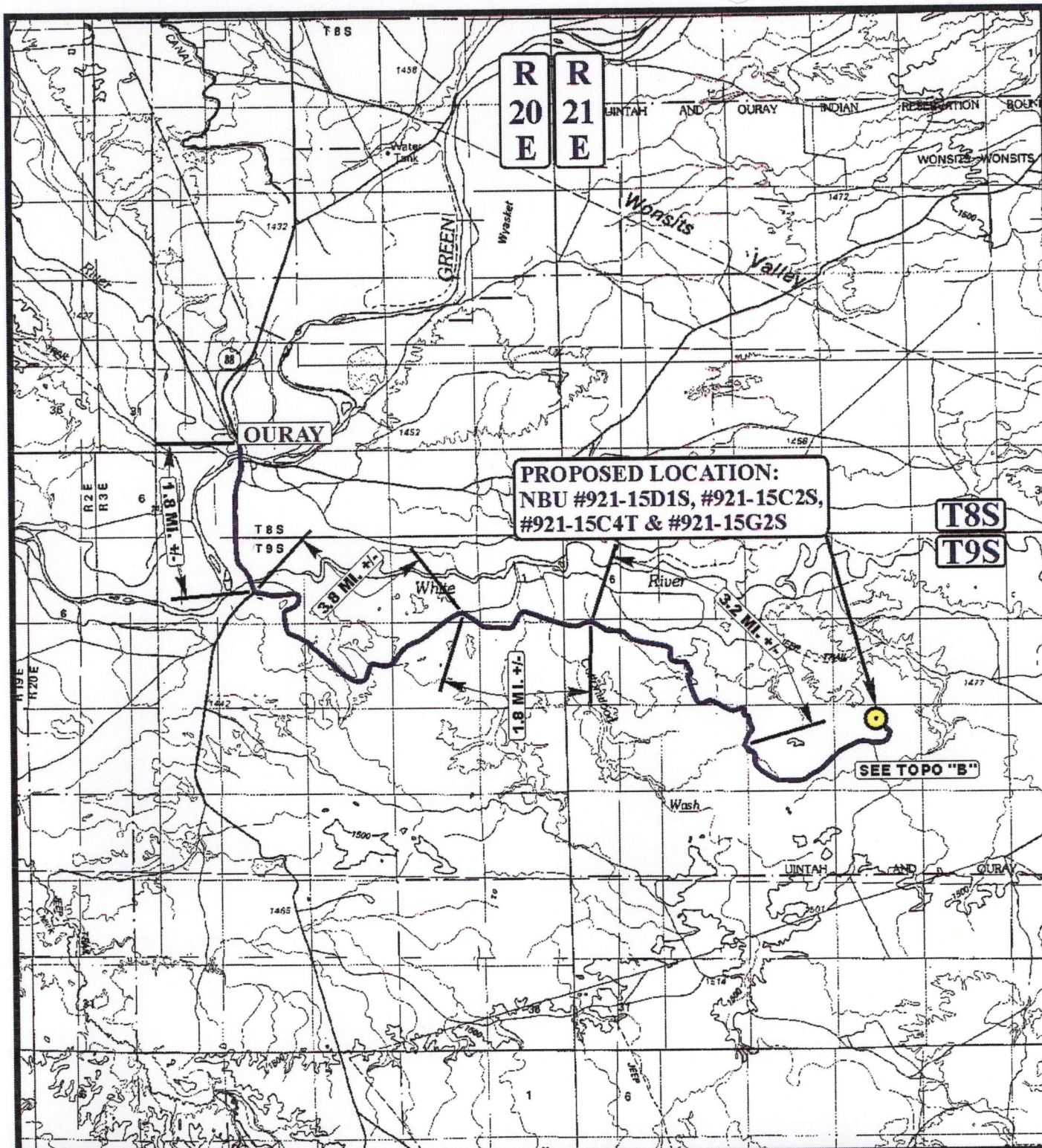
1/4 Section Line

Sec. 15

SE 1/4

SW 1/4

Set Marked
Stone, "X"
Marked on Top
of Stone



LEGEND:

PROPOSED LOCATION

N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-15D1S, #921-15C2S,
#921-15C4T & #921-15G2S
SECTION 15, T9S, R21E, S.L.B. & M.
N 1/2



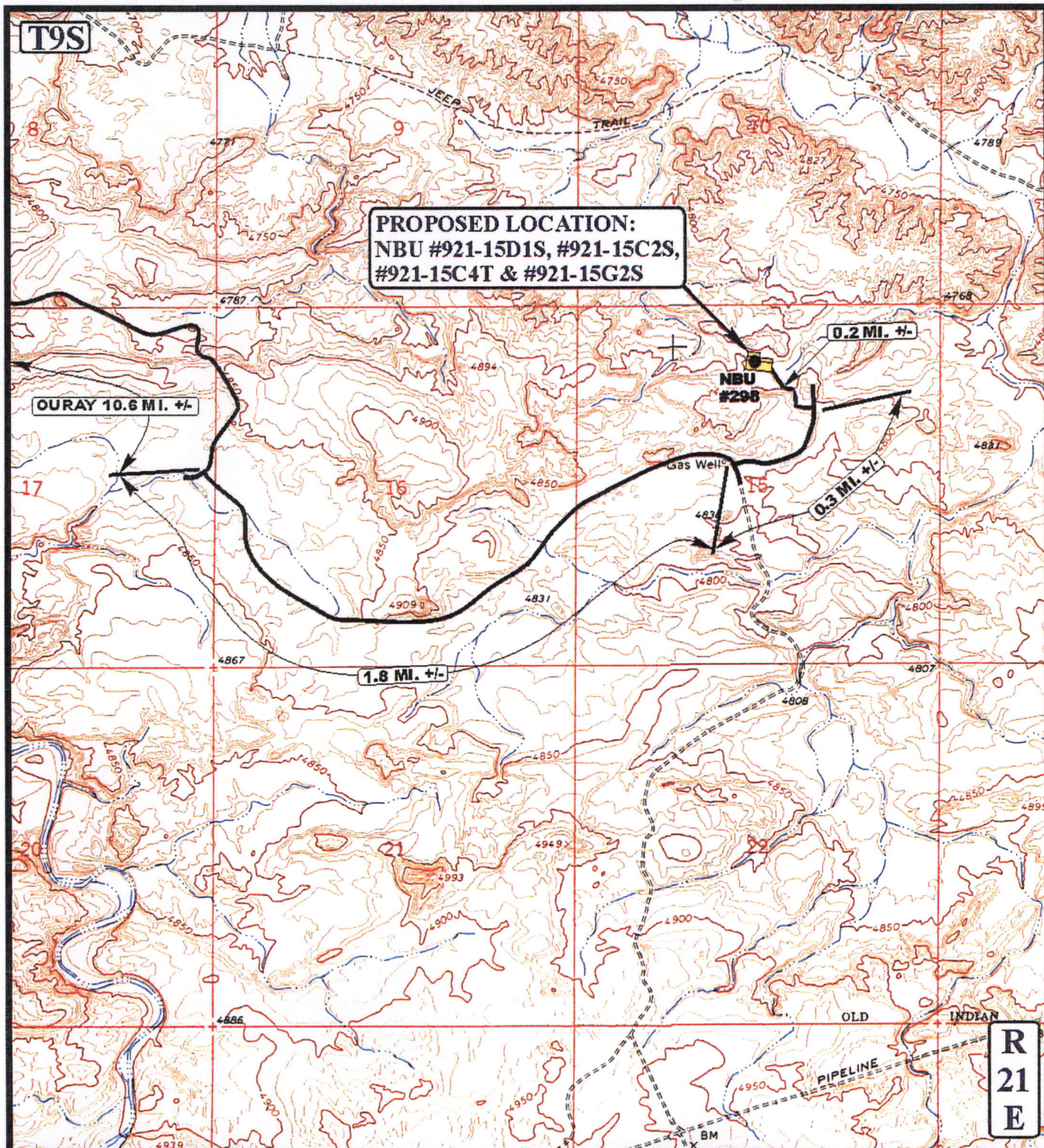
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP

05 20 08
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.C. REV: 07-17-08 C.C.

A
TOPO



LEGEND:

————— EXISTING ROAD
- - - - - PROPOSED ACCESS ROAD



Kerr-McGee Oil & Gas Onshore LP

NBU #921- 15D1S, #921-15C2S,
#921-15C 4T & #92 1-15G2S
SECTION 15, T9S, R21E, S.L.B. &M.
N 1/2



Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

05 20 08
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.C. REV: 07-17-08 C.C.

B
TOPO

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 07/23/2008

API NO. ASSIGNED: 43-047-40252

WELL NAME: NBU 921-15C2S

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

CONTACT: KEVIN MCINTYRE

PHONE NUMBER: 720-929-6226

PROPOSED LOCATION:

NENW 15 090S 210E

SURFACE: 0834 FNL 2620 FWL

BOTTOM: 1306 FNL 1427 FWL

COUNTY: Uintah

LATITUDE: 40.04108 LONGITUDE: -109.5373

UTM SURF EASTINGS: 624790 NORTHINGS: 4433131

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01188

SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. RLB0005239)
☒ Potash (Y/N)
☒ Oil Shale 190-5 (B) or 190-3 or 190-13
☒ Water Permit
(No. 43-8496)
☒ RDCC Review (Y/N)
(Date:)
☒ Fee Surf Agreement (Y/N)
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

☐ R649-2-3.
Unit: NATURAL BUTTES
☐ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
☐ R649-3-3. Exception
☒ Drilling Unit
Board Cause No: 173-14
Eff Date: 12-2-1999
Siting: 460' Fr ubary & Uncomm. Tract
☒ R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS:

1- Land Approval
2- Oil Shale

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

July 29, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Natural Buttes Unit Uintah
County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2008 within the Natural Buttes Unit, Uintah County, Utah. This well was previously submitted as 43-047-40234, NBU 921-15F2S, which was been rescinded (see our memo dated July 18, 2008).

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Wasatch/MesaVerde)

43-047-40252	NBU 921-15C2S	Sec 15 T09S R21E 0834 FNL 2620 FWL
	BHL Sec 15 T09S R21E 1306	FNL 1427 FWL

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File – Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:7-29-08



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

July 31, 2008

Kerr-McGee Oil & Gas Onshore, LP
P O Box 173779
Denver, CO 80217-3779

Re: NBU 921-15C2S Well, Surface Location 834' FNL, 2620' FWL, NE NW, Sec. 15,
T. 9 South, R. 21 East, Bottom Location 1306' FNL, 1427' FWL, NE NW, Sec. 15,
T. 9 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40252.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Office

Operator: Kerr-McGee Oil & Gas Onshore, LP
Well Name & Number NBU 921-15C2S
API Number: 43-047-40252
Lease: UTU-01188

Surface Location: NE NW **Sec.** 15 **T.** 9 South **R.** 21 East
Bottom Location: NE NW **Sec.** 15 **T.** 9 South **R.** 21 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
*Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.*

SUBMIT IN TRIPLICATE - Other Instructions on reverse side.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Kerr-McGee Oil & Gas Onshore, LP

3a. Address
P.O. Box 173779, Denver, CO 80217-3779

3b. Phone No. (include area code)
720.929.6226

4. Location of Well (Footage, Sec., T., R., or Survey Description)
NE NW Sec. 15 T 9S R 21E
834 FNL 2620 FWL

5. Lease Serial No.
UTU-01188

6. If Indian, Allottee, or Tribe Name
Ute Tribe

7. If Unit or CA. Agreement Name and/or No.
891008900A

8. Well Name and No.
NBU 921-15C2S

9. API Well No.
43-047-40252

10. Field and Pool, or Exploratory Area
Natural Buttes

11. County or Parish, State
Uintah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	_____
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Kerr-McGee Oil & Gas Onshore, LP, respectfully submits the following revised TOPO D for NBU 921-15C2S, per the conditions of the tribal onsite.

14. I hereby certify that the foregoing is true and correct.

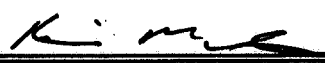
Name (Printed/ Typed)

Kevin McIntyre

Title

Regulatory Analyst

Signature



Date

10/7/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

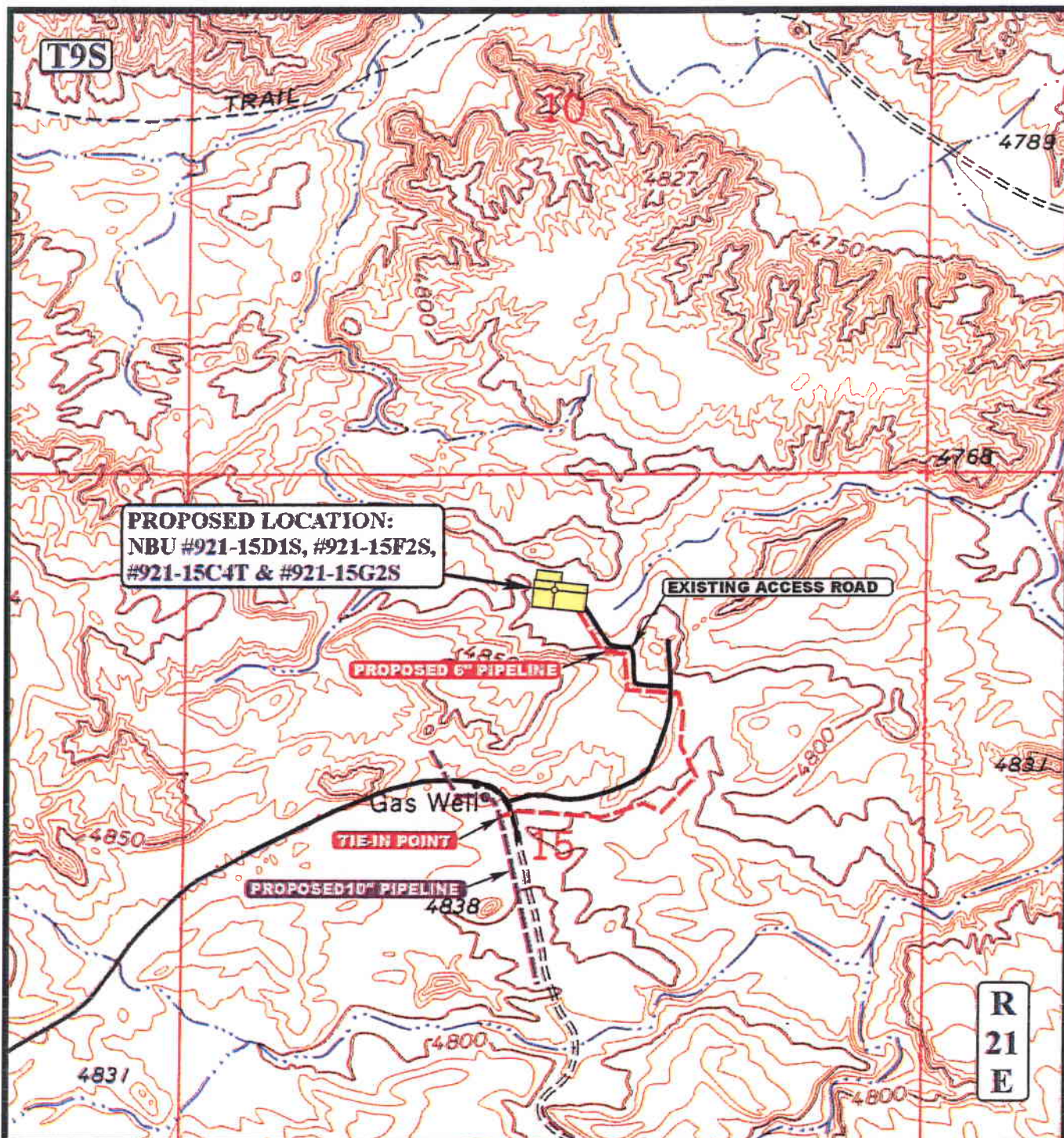
Office

RECEIVED

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OCT 08 2008

(Instructions on page 2)



APPROXIMATE TOTAL PIPELINE DISTANCE = 3,169' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- - - - - PROPOSED 6" PIPELINE
- - - - - PROPOSED 10" PIPELINE
(SERVICING OTHER WELLS)



Kerr-McGee Oil & Gas Onshore LP

NBU #921-15D1S, #921-15F2S,
#921-15C4T & #921-15G2S
SECTION 15, T9S, R21E, S.L.B.&M.
N 1/2



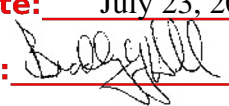
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

05 20 08
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.C. REV. J.H. 9-10-08

**D
TOPO**

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01188			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-15C2S			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0834 FNL 2620 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 15 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047402520000			
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
COUNTY: UTAH		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.					
<div style="text-align: right;"> Approved by the Utah Division of Oil, Gas and Mining </div>		Date: July 23, 2009 By: 			
NAME (PLEASE PRINT) Danielle Piernot		PHONE NUMBER 720 929-6156			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 7/21/2009					

RECEIVED July 21, 2009



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047402520000

API: 43047402520000

Well Name: NBU 921-15C2S

Location: 0834 FNL 2620 FWL QTR NENW SEC 15 TWP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 7/31/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Danielle Piernot

Date: 7/21/2009

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: July 23, 2009

By:

RECEIVED July 21, 2009

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01188
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-15C2S
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0834 FNL 2620 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 15 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047402520000
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/9/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: August 09, 2010

By:

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/9/2010	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047402520000

API: 43047402520000

Well Name: NBU 921-15C2S

Location: 0834 FNL 2620 FWL QTR NENW SEC 15 TWP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 7/31/2008

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- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Danielle Piernot

Date: 8/9/2010

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: August 09, 2010

By: 

RECEIVED August 09, 2010

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Form 3160-3
(August 2007)


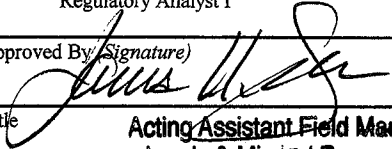
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU 01188	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name Ute Tribe	
2. Name of Operator Kerr-McGee Oil & Gas Onshore, LP		7. If Unit or CA Agreement, Name and No. 891008900A	
3a. Address PO Box 173779 Denver, CO 80217-3779		8. Lease Name and Well No. NBU 921-15C2S	
3b. Phone No. (include area code) Danielle Piernot 720-929-6156		9. API Well No. 43-047-40252	
4. Location of well (Report location clearly and in accordance with any State requirements. *) NAD 83 At surface 834' FNL 2,620' FWL NE/4 NW/4 Lat. 40.041092 Long. -109.537986 At proposed prod. zone 1,306' FNL 1,427' FWL NE/4 NW/4 Sec. 15 T9S R21E		10. Field and Pool, or Exploratory Natural Buttes Field	
11. Sec., T., R., M., or Blk. and Survey or Area 15 T 9S R 21E S.L.B.&M.		12. County or Parish Uintah	
13. State Utah		14. Distance in miles and direction from the nearest town or post office* Approximately 13 miles southeast of Ouray, Utah	
15. Distance from proposed* location to nearest property or lease line, ft. 1306' (Also to nearest drlg. unit line, if any)		16. No. of acres in lease 880.00	
17. Spacing Unit dedicated to this well Unit well		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. ±50'	
19. Proposed Depth 10,285' MD		20. BLM/ BIA Bond No. on file WYB000291	
21. Elevations (Show whether DF, RT, GR, etc.) 4,792' Ungraded Ground Level KB		22. Approximate date work will start* Upon Approval	
23. Estimated duration 60-90 days		24. Attachments	

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by existing bond on file (see item 20 above).
- Operator certification.
- Such other site specific information and/ or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/ Typed) Danielle Piernot	Date November 22, 2010
Title Regulatory Analyst I	E-mail: danielle.piernot@anadarko.com	Phone: 720-929-6156
Approved By (Signature) 	Name (Printed/ Typed) James H. Sparger	Date DEC 01 2010
Title Acting Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

UDOGM

NOTICE OF APPROVAL

RECEIVED

DEC 09 2010

DIV. OF OIL, GAS & MINING



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore, LP	Location:	NENW, Sec. 15, T9S, R21E (S) NENW, Sec. 15, T9S, R21E (B)
Well No:	NBU 921-15C2S	Lease No:	UTU-01188
API No:	43-047-40252	Agreement:	Natural Buttes Unit

OFFICE NUMBER: (435) 781-4400
OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

Site-Specific Conditions of Approval:

1. Paint old and new facilities "Shadow Gray."
2. Move the existing pipeline off the damage area of the well pad.
3. Monitor constructions operations by a permitted paleontologist.
4. Monitor constructions operations by a permitted archaeologist.
5. In accordance with the guidelines specified in the Utah BLM Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002, a raptor survey shall be conducted prior to expansion of the well pad or pipeline upgrade if construction will take place during raptor nesting season (January 01 through September 30). If active raptor nests are identified during a new survey, KMG shall conduct its operations according to the seasonal restrictions detailed in the Uintah Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (see Appendix D).
6. If project construction operations are not initiated before November 3, 2010, KMG shall conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation according to its specifications.

BIA Standard Conditions of Approval:

1. Soil erosion will be mitigated by reseeding all disturbed areas.
2. The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.
3. An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.
4. The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.
5. A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.
6. Major low water crossings will be armored with pit run material to protect them from erosion.
7. All personnel shall refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.

8. If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
9. Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.
10. Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.
11. If project construction operations are scheduled to occur after December 31, 2009, KMG shall conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix E) and conduct its operations according to applicable seasonal restrictions and spatial offsets.
12. USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix E).
13. All personnel shall refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
14. If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

1. A copy of Kerr McGee's Standard Operating Practices (dated 7/17/08 and approved 7/28/08) shall be on location.
2. Kerr McGee and their contractors shall strictly adhere to all operating practices in the SOP along with all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (1/4, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By ANDY LYTLE Phone Number 720.929.6100
Well Name/Number NBU 921-15C2S
Qtr/Qtr NENW Section 15 Township 9S Range 21E
Lease Serial Number UO-01188
API Number 4304740252

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 06/08/2011 10:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time 06/24/2011 00:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

RECEIVED**JUN 08 2011**

DIV. OF OIL, GAS & MINING

Date/Time _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01188
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-15C2S
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0834 FNL 2620 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 15 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047402520000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/2/2011	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> ALTER CASING	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 06/08/2011 AT 1300 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock		PHONE NUMBER 435 781-7024
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 6/9/2011		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01188
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-15C2S
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0834 FNL 2620 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 15 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047402520000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/19/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON JUNE 16, 2011. DRILLED SURFACE HOLE TO 2885'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 6/20/2011	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740236	NBU 921-15G2S		NENW	15	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	6/8/2011		6/22/11		
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL ON 06/08/2011 AT 0830 HRS. BHL = SWNE							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740337	NBU 921-15C4S		NENW	15	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	6/8/2011		6/22/11		
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL ON 06/08/2011 AT 1030 HRS. BHL = NENW							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740252	NBU 921-15C2S		NENW	15	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	6/8/2011		6/22/11		
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL ON 06/08/2011 AT 1300 HRS. BHL = NENW							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

6/9/2011

Date

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JUN 09 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01188
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-15C2S
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0834 FNL 2620 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 15 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047402520000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/25/2011	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> ALTER CASING	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2885' TO 10,532' ON AUGUST 22, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING TO 9771'. RAN 4 1/2" 11.6# P110 CSG FROM 9771' TO 10,525'. CEMENTED PRODUCTION CASING. RELEASED ENSIGN RIG 145 ON AUGUST 25, 2011 @ 00:00 HRS. DETAILS CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 8/25/2011		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01188
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-15C2S
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0834 FNL 2620 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 15 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047402520000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/2/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 11/02/2011 AT 11:15 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/3/2011	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU01188

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		7. Unit or CA Agreement Name and No. UTU63047A	
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE		8. Lease Name and Well No. NBU 921-15C2S	
3. Address PO BOX 173779 DENVER, CO 80217		9. API Well No. 43-047-40252	
3a. Phone No. (include area code) Ph: 720-929-6304		10. Field and Pool, or Exploratory NATURAL BUTTES	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NENW 834FNL 2620FWL 40.041093 N Lat, 109.537985 W Lon At top prod interval reported below NENW 1277FNL 1390FWL At total depth NENW 1300FNL 1435FWL		11. Sec., T., R., M., or Block and Survey or Area Sec 15 T9S R21E Mer SLB	
14. Date Spudded 06/08/2011		15. Date T.D. Reached 08/22/2011	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 11/02/2011		17. Elevations (DF, KB, RT, GL)* 4972 GL	
18. Total Depth: MD 10532 TVD 10325		19. Plug Back T.D.: MD 10481 TVD 10274	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL/VDL/GR/CCL-CMI/GR/CCL-RSL/SM/GR/CCL-BHV-SD/DSN	
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)			

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
12.250	9.625 J-55	40.0	0	2876		575		0	
7.875	4.500 I-80	11.6	0	9771		1832		950	
7.875	4.500 P-110	11.6	9771	10525					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	9686							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	7200	7800	7200 TO 7800	0.360	45	OPEN
B) MESAVERDE	8302	10144	8302 TO 10144	0.360	165	OPEN
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7200 TO 10144	PUMP 7.016 BBLs SLICK H2O & 132,691 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/02/2011	11/07/2011	24	→	0.0	1387.0	640.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. 1048 SI	Csg. Press. 1387.0	24 Hr. Rate →	Oil BBL 0	Gas MCF 1387	Water BBL 640	Gas:Oil Ratio	Well Status PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #124624 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVARDE	1430 1908 2595 5304 8286

32. Additional remarks (include plugging procedure):

Attached is the chronological well history, perforation report & final survey.

RECEIVED

DEC 05 2011

DIV. OF OIL, GAS & MINING

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #124624 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE, L, sent to the Vernal

Name (please print) JAIME L. SCHARNOWSKE

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 12/02/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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US ROCKIES REGION
Operation Summary Report

Well: NBU 921-15C2S BLUE		Spud Conductor: 6/8/2011	Spud Date: 6/17/2011
Project: UTAH-UINTAH	Site: NBU 921-15C PAD		Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/25/2011	End Date: 8/24/2011	
Active Datum: RKB @4,805.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/15/0/0/26/PM/N/834.00/W/0/2,620.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/16/2011	19:00 - 21:30	2.50	MIRU	01	C	P		SKID RIG & RIG UP (LEVEL PAD ARROUND 2nd WELL W/ DIRT
	21:30 - 23:30	2.00	PRPSPD	14	A	P		WELD ON CONDUCTOR & RIG UP FLOWLINE
	23:30 - 0:00	0.50	PRPSPD	07	A	P		SERVICE RIG & EQUIPMENT
6/17/2011	0:00 - 2:00	2.00	PRPSPD	06	A	P		PU 12.25" BIT & 8" MM
	2:00 - 3:30	1.50	DRLSUR	02	B	P		SPUD 12.25" SURFACE HOLE F/ 40' -T/ 228' /// ROP= 188' @ 125 FPH /// WOB= 16-18K /// RPM=50/100 /// SPP=1000/750 /// GPM= 595
	3:30 - 5:30	2.00	DRLSUR	06	A	P		TOOH & PU DIR TOOLS, SCRIBE, & TIH
	5:30 - 18:00	12.50	DRLSUR	02	D	P		DIR DRLG 12.25" SURFACE HOLE F/ 228'- T/ 1689' /// ROP= 1461' @ 117 FPH /// WOB= 18-22K /// RPM= 50/100 /// SPP= 1250/1000 /// GPM= 595 /// NO LOSSES
	18:00 - 0:00	6.00	DRLSUR	02	D	P		DIR DRLG 12.25" SURFACE HOLE F/ 1689' -T/ 2035' /// ROP= 346' @ 58 FPH /// WOB= 18-22K /// RPM= 50/100 /// SPP= 1350/1000 /// GPM= 595 /// NO LOSSES
6/18/2011	-		RDMO					CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28 SPUD DATE/TIME: 6/17/2011 2:00 SURFACE HOLE: Surface From depth: 40 Surface To depth: 2885' Total SURFACE hours: 33.00 Surface Casing size: 9.625" # of casing joints ran: 67 JT'S Casing set MD: 2861' # sx of cement: 250/225/100 Cement blend (ppg): 11/15.8/15/8 Cement yield (ft3/sk): 3.82/1.15/1.15 # of bbls to surface: 45 BBL'S Describe cement issues: NONE Describe hole issues: NONE
	0:00 - 6:00	6.00	DRLSUR	02	D	P		DIR DRLG 12.25" SURFACE HOLE F/ 2035'- T/ 2400' /// ROP= 365' @ 61 FPH /// WOB= 18-22K /// RPM= 50/100 /// SPP= 1350/1000 /// GPM= 595 /// NO LOSSES
	6:00 - 13:00	7.00	DRLSUR	02	D	P		DIR DRLG 12.25" SURFACE HOLE F/ 2400'-T/ 2885' /// ROP= 485' @ 69 FPH /// WOB= 18-22K /// RPM= 50/100 /// SPP= 1350/1000 /// GPM= 595 /// NO LOSSES
	13:00 - 13:30	0.50	DRLSUR	05	A	P		CIRC & COND HOLE FOR 9-5/8" SURFACE CSG
	13:30 - 16:00	2.50	DRLSUR	06	A	P		LDDS & DIR TOOLS
	16:00 - 18:30	2.50	CSG	12	C	P		PJSM /// RUN 67 JT'S, 9-5/8", 40#, J-55, LT&C CSG
	18:30 - 19:00	0.50	CSG	05	A	P		/// SHOE SET @ 2861' & BAFFLE @ 2817' CIRC 9-5/8" CSG @ 2861'

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-15C2S BLUE	Spud Conductor: 6/8/2011	Spud Date: 6/17/2011
Project: UTAH-UINTAH	Site: NBU 921-15C PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/25/2011	End Date: 8/24/2011
Active Datum: RKB @4,805.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/15/0/0/26/PM/N/834.00/W/0/2,620.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/15/2011	19:00 - 21:30	2.50	CSG	12	B	P		PJSM W / SUPERIOR CMT CREW /// TEST LINES TO 2500 PSI /// PUMP 25 BBL SPACER /// LEAD = 250 SX CLASS G CMT @ 3.82 YIELD & 11.0 WT // TAIL = 225 SX @ 1.15 YIELD & 15.8 WT /// DROP PLUG & DISPLACE W/ 200 BBLs WATER /// PLUG DN @ 21:32 6/18/2011 /// BUMP PLUG W/ 905 PSI /// FINAL LIFT = 640 PSI /// CHECK FLOATS- HELD W/ 1.15 BBL'S BACK /// FULL RETURNS THRU OUT JOB /// 45 BBLs TO SURFACE
	21:30 - 22:00	0.50	CSG	14	A	P		CUT OFF CONDUCTOR & HANG 9-5/8" SURFACE CSG
	22:00 - 23:00	1.00	CSG	12	E	P		RUN 200' OF 1" PIPE DN BACKSIDE & TOP OUT W/ 100 SX CMT @ 15.8 WT & 1.15 YIELD
	23:00 - 0:00	1.00	RDMO	01	E	P		CLEAN PITS & RIG DN /// RELEASE RIG @ 00:00 06/19/2011 TO THE NBU 921-15C4S
	2:00 - 5:30	3.50	MIRU	01	C	P		PULL OUT CAT WALK. UNDO FLARE LINES AND FLOWLINES. PLACE MATTING BOARDS TO WALK RIG FOWARD. WALK RIG FORWARD 20' OVER WELL. SET DOWN STACK AND LEVEL AND CENTER RIG.
	5:30 - 7:00	1.50	MIRU	14	A	P		NIPPLE UP BOP'S. NIPPLE UP FLOWLINES. RIG UP FLARE LINES.
	7:00 - 12:00	5.00	MIRU	15	A	P		HOLD SAFETY MEETING. TEST TOP DRIVE VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST CSG TO 1500 PSI FOR 30 MIN. (CHECK ACCUMALATOR BOTTLES.) SET WEARBUSHING WITH NORMAL WEAR (8 1/16"). PERFORM RIG INSPECTION.
	12:00 - 15:00	3.00	MIRU	06	A	P		P/U SDI 1.5 BH .23 RPG ERT MOTOR (SN 6227). M/U SMITH BIT MDI616 W/ 6-14'S (SN JE8562). SCRIBE MOTOR. M/U DIRECTIONAL BHA. INSTALL EM TOOL. TRIP IN HOLE TO 2650'.
	15:00 - 19:00	4.00	MIRU	09	A	P		SLIP AND CUT DRILL LINE. DRILL LINE GO HUNG UP AND SLIGHTLY BENT DRILL LINE. ENSIGN INPECTED DRILL LINE AND DECIDED DRILL LINE WOULD BE OK.
	19:00 - 20:00	1.00	MIRU	07	A	P		SERVICE RIG. SERVICE IRON DERRICK MAN. INSTALL NEW SAVER SUB. CHANGE GRABBERBOX DIES.
	20:00 - 20:30	0.50	MIRU	06	A	P		TRIP IN. INSTALL NEW ROT HEAD RUBBER. CHECK PUMPS AND LINES FOR LEAKS.
	20:30 - 22:00	1.50	DRLPRO	02	F	P		SPUD 8/15/2011 20:30. DRILL CEMENT AND FE 2800'-2889'. BAFFLE PLATE @ 2821', FLOAT SHOE @ 2865'. DRILL OUT W/ 100 SPM, 450 GPM, 30 RPM, 12K WOB. (PLUG STARTED TURNING UNDER BIT. SHUT DOWN PUMPS AND PRESSED DOWN ONTO PLUG WITH 25K TO PINCH RUBBER. THEN CONTINUED DRILLING THROUGH PLUG.)

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US ROCKIES REGION
Operation Summary Report

Well: NBU 921-15C2S BLUE		Spud Conductor: 6/8/2011	Spud Date: 6/17/2011
Project: UTAH-UINTAH		Site: NBU 921-15C PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING		Start Date: 5/25/2011	End Date: 8/24/2011
Active Datum: RKB @4,805.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/15/0/0/26/PM/N/834.00/W/0/2,620.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	22:00 - 0:00	2.00	DRLPRO	02	D	P		DRILL SLIDE 2889'-3062' (173',87'/HR) WOB 15-20K AVE WOB 18K, SPM 120, GPM 540, PSI ON/OFF 1500/1050, DIFF 450, MOT RPM 124, ROT 45, TOR ON/OFF/UP 6/3/3, PU/SO/ROT 114/109/112, DRAG 2K. CIRC. RESERVE PIT. W. 8.4# WATER. USE POLYMER DOWN DP ON CONNECTIONS. SLIDE 78' @ 100' HR 45% SLIDE 55% ROT. SLIDE UP TO MAINTAIN TANGENT.
8/16/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 3062'-3590' (528',88'/HR) WOB 15-20K AVE WOB 18K, SPM 120, GPM 540, PSI ON/OFF 1800/1300, DIFF 500, MOT RPM 124, ROT 45, TOR ON/OFF/UP 6/3/3, PU/SO/ROT 117/114/116, DRAG 1K. CIRC. RESERVE PIT. W. 8.4# WATER. USE POLYMER DOWN DP ON CONNECTIONS. SLIDE 211' @ 90' HR 40% SLIDE 55% ROT. SLIDE UP TO MAINTAIN TANGENT. 5-10' FLARE WHILE DRILLING AND TRACE OIL FROM 3500'.
	6:00 - 11:30	5.50	DRLPRO	02	D	P		DRILL SLIDE 3590'-4207' (817',112'/HR) WOB 15-20K AVE WOB 18K, SPM 120, GPM 540, PSI ON/OFF 1800/1300, DIFF 500, MOT RPM 124, ROT 45, TOR ON/OFF/UP 8/4/5, PU/SO/ROT 135/126/123, DRAG 9K. CIRC. RESERVE PIT. W. 8.4# WATER. USE POLYMER DOWN DP ON CONNECTIONS. SLIDE 259' @ 85' HR 42% SLIDE 54% ROT. SLIDE UP TO MAINTAIN TANGENT. 5-10' FLARE ON CONNECTIONS W/ TRACE OIL FROM 3500'. NO LOSSES.
	11:30 - 12:00	0.50	DRLPRO	07	A	P		SERVICE RIG. SERVICE TOP DRIVE.
	12:00 - 18:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 4207'-4750' (543',91'/HR) WOB 15-20K AVE WOB 18K, SPM 120, GPM 540, PSI ON/OFF 1850/1425, DIFF 425, MOT RPM 124, ROT 45, TOR ON/OFF/UP 8/4/5, PU/SO/ROT 145/123/132, DRAG 13K. CIRC. RESERVE PIT. W. 8.4# WATER. USE POLYMER DOWN DP ON CONNECTIONS. SLIDE 233' @ 85' HR 43% SLIDE 50% ROT. SLIDE UP TO MAINTAIN TANGENT. NO FLARE. NO LOSSES. TRACE OIL FROM 3500'.
	18:00 - 23:30	5.50	DRLPRO	02	A	P		DRILL SLIDE 4750'-5216' (466',85'/HR) WOB 15-21K AVE WOB 18K, SPM 120, GPM 540, PSI ON/OFF 2050/11650, DIFF 425, MOT RPM 124, ROT 45, TOR ON/OFF/UP 9/5/5, PU/SO/ROT 143/123/135, DRAG 8K. CIRC. RESERVE PIT. W. 8.4# WATER. USE POLYMER DOWN DP ON CONNECTIONS. SLIDE 182' @ 85' HR 39% SLIDE 61% ROT. SLIDE UP TO MAINTAIN TANGENT. NO FLARE. NO LOSSES. TRACE OIL FROM 3500'. STARTED SEEING PRESSURE INCREASE OF 200-300 ON OFF BOTTOM PSI AROUND 4918'-5216'. THEN DP PRESSURED INCREASED WHILE SLIDING AND BLEW POP OFFS ON PUMP. WE HAD APPROX A 800 PSI INCREASE ON OFF BOTTOM PSI. TESTED MOTOR AND BOTTOM OF HOLE AND MOTOR WOULD STILL TURN DRILL STRING BACKWARDS ON BOTTOM. HOLE IS FREE WITH GOOD CIRCULATION.

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US ROCKIES REGION
Operation Summary Report

Well: NBU 921-15C2S BLUE		Spud Conductor: 6/8/2011		Spud Date: 6/17/2011	
Project: UTAH-UINTAH		Site: NBU 921-15C PAD		Rig Name No: ENSIGN 145/145, CAPSTAR 310/310	
Event: DRILLING		Start Date: 5/25/2011		End Date: 8/24/2011	
Active Datum: RKB @4,805.00usft (above Mean Sea Level)			UWI: NE/NW/0/9/S/21/E/15/0/0/26/PM/N/834.00/W/0/2,620.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	23:30 - 0:00	0.50	DRLPRO	06	G	Z		TROUBLE SHOOT PROBLEM. TESTED MOTOR AND BOTTOM OF HOLE AND MOTOR WOULD STILL TURN DRILL STRING BACKWARDS ON BOTTOM. HOLE IS FREE WITH GOOD CIRCULATION. CHECK SUCTION PIT AND SUCTION PIT IS CLEAN. PRESSURE WILL BLEED OFF. POSSIBILITY OF PLUGGED JETS OR POSSIBLE MOTOR FAILURE.
8/17/2011	0:00 - 1:30	1.50	DRLPRO	06	G	Z		WET TRIP OUT OF HOLE TO 3500'. WELL FLOWING 1/2 BBL HR. NO TIGHT HOLE ON TRIP.
	1:30 - 2:30	1.00	DRLPRO	05	B	Z		CIRC OUT GAS. 10-15' FLARE THROUGH OUT CIRC. PUMP 130 BBLs OF 13# MUD TO HOLD GAS AND DRY PIPE.
	2:30 - 7:00	4.50	DRLPRO	06	G	Z		TRIP OUT OF HOLE. PULLED EM TOOL AND CHECK FINS ON TOOL. CHECK FLOAT. FLOAT HAD HARD OBJECT HOLDING FLOAT OPEN. WHILE TRYING TO GET OBJECT OUT OF FLOAT. OBJECT FELL BELOW FLOAT. PULL UP CHECK BIT. JETS PLUGGED WITH RUBBER. BREAK OFF BIT. MOTOR TURNS AND DRAINS GOOD. CLEANED OUT BIT JETS. (RUBBER OUT OF BIT APPEARS TO BE STATOR RUBBER). (BIT UNDAMAGED)
	7:00 - 9:30	2.50	DRLPRO	06	G	Z		PICK UP SDI .23 RPG ERT MOTOR W 1.5 BH. MAKE UP SAME BIT. SCRIBE MOTOR AND DIRECTIONAL TOOLS, TRIP IN HOLE TO 3000'
	9:30 - 10:00	0.50	DRLPRO	05	A	Z		CIRCUALTAE 130 BBLs OF 13# MUD AND DRY JOB FROM WELL BORE.
	10:00 - 11:30	1.50	DRLPRO	06	A	Z		TRIP IN HOLE TO 5216' BREAK CIRCULATION 5' FLARE ON BOTTOMS
	11:30 - 0:00	12.50	DRLPRO	02	D	P		DRILL F/ 5216' TO 6513' = 1297' 103.76 FPH STKS #1 & #2 PUMPS 60/60, 540 GPM PSI OFF / ON BOTTOM 1470/1874 MOTOR RPM / ROTARY RPM, 124/45 TQ ON / OFF BOTTOM 10K/8K FT/LBS PU / SO / ROT WT 185 / 152/ 164 WT ON BIT 15K TO 22K
								NO LOSS, DRILLING WITH WATER
8/18/2011	0:00 - 17:30	17.50	DRLPRO	02	D	P		DRILL F/ 6513' TO 8193' = 1680' 96 FPH STKS #1 & #2 PUMPS 60/60, 540 GPM PSI OFF / ON BOTTOM 1700/2125 MOTOR RPM / ROTARY RPM, 124/45 TQ ON / OFF BOTTOM 11K/8K FT/LBS PU / SO / ROT WT 239 / 176/ 193 WT ON BIT 15K TO 22K
								NO LOSS, STARTED MUD UP
	17:30 - 18:00	0.50	DRLPRO	07	A	P		DAILY RIG SERVICE
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL F/ 8193' TO 8566' = 373' 62 FPH STKS #1 & #2 PUMPS 00/105, 473 GPM PSI OFF / ON BOTTOM 1447/1784 MOTOR RPM / ROTARY RPM, 108/50 TQ ON / OFF BOTTOM 11K/8K FT/LBS PU / SO / ROT WT 239 / 176/ 202 WT ON BIT 15K TO 22K
								NO LOSS, STARTED MUD UP @ 8200' VIS 33, WT 8.8

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US ROCKIES REGION
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Project: UTAH-UINTAH		Site: NBU 921-15C PAD		Rig Name No: ENSIGN 145/145, CAPSTAR 310/310	
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/19/2011	0:00 - 20:30	20.50	DRLPRO	02	D	P		DRILL F/ 8566' TO 9551' = 985' 48 FPH STKS #1 & #2 PUMPS 00/105, 473 GPM PSI OFF / ON BOTTOM 1800/2267 MOTOR RPM / ROTARY RPM, 108/50 TQ ON / OFF BOTTOM 11K/8K FT/LBS PU / SO / ROT WT 265 / 176/ 210 WT ON BIT 15K TO 22K NO LOSS, VIS 35, WT 9.2 LCM 4% DAILY RIG SERVICE
	20:30 - 21:00	0.50	DRLPRO	07	A	P		
	21:00 - 0:00	3.00	DRLPRO	02	D	P		DRILL F/ 9551' TO 9685' = 134' 44.6 FPH STKS #1 & #2 PUMPS 00/105, 473 GPM PSI OFF / ON BOTTOM 1800/2267 MOTOR RPM / ROTARY RPM, 108/50 TQ ON / OFF BOTTOM 11K/8K FT/LBS PU / SO / ROT WT 265 / 176/ 210 WT ON BIT 15K TO 22K NO LOSS, VIS 35, WT 9.2 LCM 4%
8/20/2011	0:00 - 7:30	7.50	DRLPRO	02	D	P		DRILL F/ 9685' TO 9879' = 194' 25.8 FPH STKS #1 & #2 PUMPS 00/105, 473 GPM PSI OFF / ON BOTTOM 2141/2531 MOTOR RPM / ROTARY RPM, 108/50 TQ ON / OFF BOTTOM 13K/8K FT/LBS PU / SO / ROT WT 258 / 180/ 219 WT ON BIT 15K TO 22K NO LOSS, VIS 37, WT 9.6 LCM 10%
	7:30 - 16:30	9.00	DRLPRO	06	A	P		FLOW CHECK, NO FLOW, TRIP OUT FOR BHA, PUMP AND ROTATE OUT TO 7998', WORK THROUGH TIGHT SPOT AT 5298' TO 5195' TRIP OUT TO TOP OF BHA, FLOW CHECK, NO FLOW PULL ROTATE HEAD, TRIP OUT BHA LAY DOWN BIT & MOTOR, BIT GRADED 1-6 WITH 2 PLUGGED JETS, FOUND RUBBER LOOKED LIKE OLD FLOAT RUBBER FOM RESERVE PIT, MOTOR DRIANED GOOD, MOTOR HAS 59.5 HRS, HOLE TOOK PROPER FLUID RIG STILL CENTER AND LEVEL
	16:30 - 20:00	3.50	DRLPRO	06	A	P		PICK UP HUGHES Q506F BIT, SDI MOTOR #6336 HAS 18 HRS ONLY SLOW SPEED BENT HOUSING ON LOCATION (.16 RPG, 1.5 BEND) & INSTALL MWD TOOL, SCRIBE MWD & TRIP IN HOLE TO SHOE BREAK CIRCULATION 5' FLARE
	20:00 - 22:00	2.00	DRLPRO	09	A	P		SLIP CUT 58' OF DRILL LINE
	22:00 - 0:00	2.00	DRLPRO	06	A	P		TRIP IN HOLE TO 5114' BREAK CIRCULATION FOR 15 MIN NO TIGHT SPOTS
8/21/2011	0:00 - 2:00	2.00	DRLPRO	06	A	P		TRIP IN HOLE TO 8067' BREAK CIRCULATION, REAM TIGHT SPOT AT 8100', WORK TIGHT SPOT, LOST RETURNS, LOST ALL MOVEMENT OF PIPE
	2:00 - 6:30	4.50	DRLPRO	22	A	X		WORK PIPE CALL FOR FISHING HAND AND TOOLS @ 03:30, SET ALL STRING WEIGHT DOWN NO PUMP AND WORK TQ INTO STRING PIPE CAME FREE @ 05:00, GOT FULL MOVEMENT NO CIRCULATION, WORK PIPE IN FREE AREA GOT FULL RETURNS @ 05:30, PULL OUT OF HOLE 2 STANDS ABOVE TIGHT SPOT TO 8020', LOST ABOUT 400 BBL

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US ROCKIES REGION
Operation Summary Report

Well: NBU 921-15C2S BLUE		Spud Conductor: 6/8/2011		Spud Date: 6/17/2011	
Project: UTAH-UINTAH		Site: NBU 921-15C PAD		Rig Name No: ENSIGN 145/145, CAPSTAR 310/310	
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 10:30	4.00	DRLPRO	06	A	P		PRECAUTIONARY WASH & REAM STANDS IN HOLE & CONDITION MUD F/ 8020 TO 8380', TIH TO 8829', WASH F/ 8829 TO 8923' TO ESTABLISH RETURNS, TIH TO 9330', STARTED TAKING WEIGHT, KELLY UP BREAK CIRCULATION REAM TO BOTTOM F/ 9330 TO 9879' TAKING 3K TO 11K, BOTTOMS UP 15' FLARE. LOST 200 BBL WHILE REAMING
	10:30 - 17:00	6.50	DRLPRO	02	D	P		DRILL F/ 9879' TO 10,192' = 313' 48 FPH STKS #1 & #2 PUMPS 00/105, 473 GPM PSI OFF / ON BOTTOM 2275/2545 MOTOR RPM / ROTARY RPM, 76/50 TQ ON / OFF BOTTOM 11K/8K FT/LBS PU / SO / ROT WT 270 / 186/ 219 WT ON BIT 15K TO 22K ESTIMATED LOSSES @ 40BBL AN HR 260 BBL VIS 44, WT 11.1 LCM 20%
	17:00 - 17:30	0.50	DRLPRO	07	A	P		DAILY RIG SERVICE
	17:30 - 0:00	6.50	DRLPRO	02	D	P		DRILL F/ 10,192' TO 10,420' = 228' 35 FPH STKS #1 & #2 PUMPS 00/105, 473 GPM PSI OFF / ON BOTTOM 2275/2545 MOTOR RPM / ROTARY RPM 76/50 TQ ON / OFF BOTTOM 11K/8K FT/LBS PU / SO / ROT WT 270 / 189/ 222 WT ON BIT 15K TO 22K NO LOSSES, VIS 44, WT 11.6 LCM 20%
8/22/2011	0:00 - 3:30	3.50	DRLPRO	02	D	P		DRILL F/ 10,420' TO 10,532' = 112' 32 FPH STKS #1 & #2 PUMPS 00/105, 473 GPM PSI OFF / ON BOTTOM 2275/2545 MOTOR RPM / ROTARY RPM, 76/50 TQ ON / OFF BOTTOM 11K/8K FT/LBS PU / SO / ROT WT 270 / 189/ 222 WT ON BIT 15K TO 22K NO LOSSES, VIS 44, WT 11.6 LCM 20%
	3:30 - 4:30	1.00	DRLPRO	05	C	P		CIRCULATE PRIOR TO WIPER TRIP
	4:30 - 10:00	5.50	DRLPRO	06	E	P		FLOW CHECK, NO FLOW, TRIP OUT FOR WIPER TRIP, PUMP AND ROTATE OUT TO 9198', TRIP OUT STRIAIGHT PULL TO SHOE, NO TIGHT SPOTS, FLOW CHECK, NO FLOW, WELL TOOK PROPER FLUID
	10:00 - 10:30	0.50	DRLPRO	05	A	P		CIRCULATE WEIGHT PILL FROM WELL BORE NO FLARE, FLOW CHECK, NO FLOW
	10:30 - 15:30	5.00	DRLPRO	06	E	P		TRIP IN HOLE WIPER TRIP, BREAK CIRCULATION @ 5900', CONTINUE TRIP IN HOLE TO 8517' BREAK CIRCULATION, TRIP IN HOLE TO 10,463, BREAK CIRCULATION AND PRECAUTIONARY WASH AND REAM TO 10,532, NO TIGHT SPOTS DURING TRIP, NO FILL ON BOTTOM
	15:30 - 16:30	1.00	DRLPRO	05	F	P		PUMP SWEEP CLEAN HOLE PIOR TO TRIP OUT FOR LOGS, MUD IN 11.5, VIS 47, 22%, MUD OUT WT 11.4, VIS 47, 18%, 12' FLARE FOR 10 MINUTES
	16:30 - 0:00	7.50	DRLPRO	06	B	P		TRIP OUT FOR LOGS, PUMP AND ROTATE OUT TO 8839', TRIP OUT STRIAIGHT PULL TO SHOE, NO TIGHT SPOTS, FLOW CHECK, NO FLOW, TRIP OUT TO BHA FLOW CHECK NO FLOW, PULL ROTATING HEAD, TRIP OUT HWDP

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US ROCKIES REGION
Operation Summary Report

Well: NBU 921-15C2S BLUE		Spud Conductor: 6/8/2011		Spud Date: 6/17/2011	
Project: UTAH-UINTAH		Site: NBU 921-15C PAD			Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING		Start Date: 5/25/2011		End Date: 8/24/2011	
Active Datum: RKB @4,805.00usft (above Mean Sea Level)			UWI: NE/NW/0/9/S/21/E/15/0/0/26/PM/N/834.00/W/0/2,620.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/23/2011	0:00 - 1:30	1.50	DRLPRO	06	B	P		TRIP OUT FOR LOGS, LAY DOWN BIT & MOTOR, BIT GRADED 1-5
	1:30 - 8:00	6.50	DRLPRO	11	D	P		WAIT 1 HR ON LOGGERS, HELD SAFTEY MEETING RIG UP LOGGERS & LOG, 05:00 LOGS BRIDGED OUT @ 8880, LOG OUT FROM THERE, HELD SAFTEY MEETING RIG DOWN LOGGERS
	8:00 - 8:30	0.50	DRLPRO	07	A	P		DAILY RIG SERVICE
	8:30 - 17:30	9.00	DRLPRO	06	E	P		TRIP IN HOLE, PICK UP BIT & BIT SUB, TRIP IN TO SHOE CIRCULATE BOTTOMS UP NO FLARE, TRIP IN BREAK CIRCULATION @ 6500', TRIP IN TO 8863' REAM THROUGH BRIDGE TO 8874', TRIP IN HOLE TO 9805' REAM TO 9890', TRIP IN TO 10'013 REAM TO 10'070, TRIP TO 10'438, WASH REAM LAST 90 TO BOTTOM
	17:30 - 19:30	2.00	DRLPRO	05	F	P		CIRCULATE 2 HOLE CLEANING SWEEPS 80+ VIS WORK PIPE 1 FULL STAND WHILE CIRCULATING, PUMP SWEEPS
	19:30 - 0:00	4.50	DRLPRO	06	B	P		10' TO 12' FLARE FOR 15 MIN, MUD WT IN 11.4 MUD WT OUT 11.1
8/24/2011	0:00 - 3:30	3.50	DRLPRO	06	B	P		FLOW CHECK NO FLOW, TRIP OUT FOR LOGS, PUMP AND ROTATE OUT TO 9177', PUMP WEIGHTED PILL, NO FLOW, TRIP OUT STRIAIGHT PULL TO 5319, NO TIGHT SPOTS, HOLE TOOK PROPER DISPLACEMENT
	3:30 - 7:00	3.50	DRLPRO	11	D	P		TRIP OUT TO SHOE, NO TIGHT SPOTS, NO FLOW, WELL TOOK PROPER FLUID, TRIP OUT TO BHA, NO FLOW, PULL ROTATE HEAD, TRIP OUT BHA, WELL TOOK PROPER FLUID
	7:00 - 17:00	10.00	CSG	12	C	P		ATTEMPT SECOND LOG, BRIDGE OUT AT 9165', PULL LOGS OUT AND RIG DOWN
	17:00 - 19:30	2.50	CSG	05	D	P		PULL WEAR BUSHING, READY RIG FLOOR FOR CASING CREW, HELD SAFTEY MEETING RIG UP CASING CREW RUN DCT P110 SHOE, FLOAT, 15 CENTRALIZERS, 18 JOINTS 4.5, 11.6, P110, BTC & 236 JOINTS 4.5, 11.6, I-80 BTC CASING, FILL PIPE @ 6029', WASATCH MARKER 5266', MVERDE MARKER 8232'
								CIRCULATE DOWN CASING, HELD SAFTEY MEETING RIG DOWN CASERS, SPOT BJ TRUCKS AND RIG UP TRUCKS, HELD SAFTEY MEETING INSTALL CEMENT HEAD AND BJ IRON, BOTTOM UP FLARE 10'TO 15' FOR 25 MIN

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Project: UTAH-UINTAH		Site: NBU 921-15C PAD		Rig Name No: ENSIGN 145/145, CAPSTAR 310/310	
Event: DRILLING		Start Date: 5/25/2011		End Date: 8/24/2011	
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	19:30 - 22:00	2.50	CSG	12	E	P		HELD SAFTEY MEETING HOOK UP BJ LINES TO HEAD & PUMP, 10 BBL WATER AHEAD LEAD SCAVENGER 11 BBL, 20 SACS, 11PPG, 3.16 YEILD, 19.17 GPS LEAD 258 BBL 630 SKS PL2 - 12.0 PPG, 2.30 YEILD, 12.70 GPS WATER TAIL 280 BBL 1202 SKS POZ 50/50 - 14.3 PPG 1.31 YEILD, 5.90 GPS WATER DROP PLUG DISPLACE WITH 163 BBL FRESH WATER WITH CLAY CARE & MAGNACIDE, BUMP PLUG TO 3794, FINAL LIFT 2750, 1044 PSI OVER, 2 BBL BACK TO TRUCK, FULL RETURNS, 5 BBL CEMENT BACK TO PIT, EST TOP OF LEAD CEMENT 0, TOP OF TAIL 4764, HELD SAFTEY MEETING RIG DOWN BJ, CLEANING PITS WHILE PUMPING CEMENT 22:00 - 23:59 1.98 CSG 14 A P FLUSH STACK, READY STACK TO SET SLIPS, SET SLIPS, WITH WEATHERFORD HAND 90K ON SLIPS, LIFT STACK & CUT CASING, CLEAN PITS. RELEASE RIG 8/25/2011 00:00

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	23:59 - 0:00	0.02	CSG					<p>PRODUCTION: Rig Move/Skid start date/time: 8/15/2011 2:00 Rig Move/Skid finish date/time: 8/15/2011 5:30 Total MOVE hours: 3.5 Prod Rig Spud date/time: 8/15/2011 20:30 Rig Release date/time: 8/24/2011 23:59 Total SPUD to RR hours: 219.5 Planned depth MD 10,525 Planned depth TVD 10,336 Actual MD: 10,532 Actual TVD: 10,325 Open Wells \$: AFE \$: Open wells \$/ft:</p> <p>PRODUCTION HOLE: Prod. From depth: 2,889 Prod. To depth: 10,532 Total PROD hours: 108.5 Log Depth: 8880 Production Casing size: 4 1/2 # of casing joints ran: 251 Casing set MD: 10,525.0 # sx of cement: 1,850 Cement blend (ppg): SCAVENGER LEAD 11 LEAD 12, TAIL 14.3 Cement yield (ft3/sk): SCAVENGER LEAD 3.16, LEAD 2.3, TAIL 1.31 Est. TOC (Lead & Tail) or 2 Stage : LEAD @ SURFACE, TAIL @ 4764 Describe cement issues: NONE Describe hole issues: LOSSING RETURNS 20% LCM</p> <p>DIRECTIONAL INFO: KOP: 40 Max angle: 23.45 Departure: 1311.29 Max dogleg MD: 6418.00</p>

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US ROCKIES REGION

1 General**1.1 Customer Information**

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-15C2S BLUE	Wellbore No.	OH
Well Name	NBU 921-15C2S	Wellbore Name	NBU 921-15C2S
Report No.	1	Report Date	10/20/2011
Project	UTAH-UINTAH	Site	NBU 921-15C PAD
Rig Name/No.		Event	COMPLETION
Start Date	10/20/2011	End Date	11/2/2011
Spud Date	6/17/2011	Active Datum	RKB @4,805.00usft (above Mean Sea Level)
UWI	NE/NW/0/9/S/21/E/15/0/0/26/PM/N/834.00/W/0/2,620.00/0/0		

1.3 General

Contractor	CASED HOLE SOLUTIONS	Job Method	PERFORATE	Supervisor	ED GUDAC
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	7,200.0 (usft)-10,144.0 (usft)	Start Date/Time	10/24/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	36	End Date/Time	10/24/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	0	Net Perforation Interval	62.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	0.00 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary**2 Intervals****2.1 Perforated Interval**

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/24/2011 12:00AM	WASATCH/ 1			7,200.0	7,203.0			0.360	EXP/	3.375	120.00			23.00 PRODUCTIO N	

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2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/24/2011 12:00AM	WASATCH/			7,417.0	7,420.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	WASATCH/			7,568.0	7,570.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	WASATCH/			7,696.0	7,698.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	WASATCH/			7,798.0	7,800.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			8,302.0	8,306.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			8,358.0	8,362.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			8,561.0	8,563.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			8,580.0	8,582.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			8,608.0	8,610.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			8,678.0	8,680.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			8,726.0	8,728.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			8,950.0	8,951.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			8,969.0	8,970.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			8,998.0	9,001.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

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2.1 Perforated Interval (Continued)

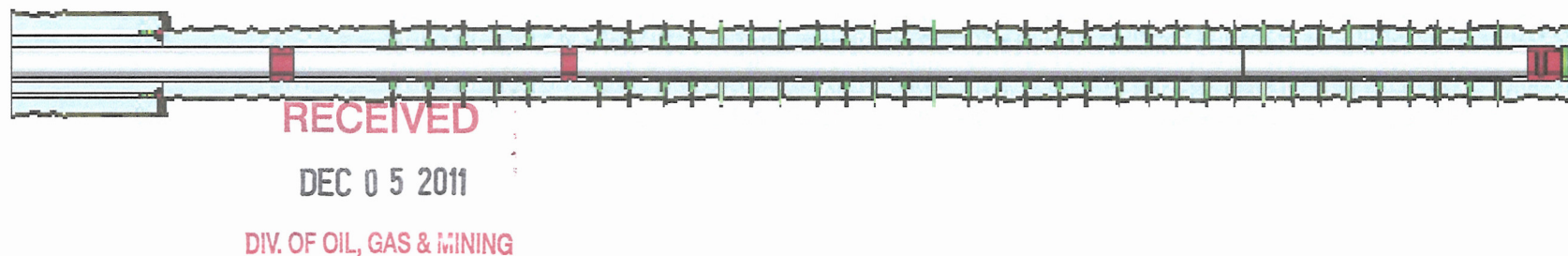
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/24/2011 12:00AM	MESAVERDE/			9,084.0	9,085.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,110.0	9,111.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,278.0	9,280.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,311.0	9,312.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,360.0	9,362.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,468.0	9,469.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,485.0	9,486.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,588.0	9,590.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,648.0	9,649.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,675.0	9,676.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,731.0	9,732.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,745.0	9,746.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,782.0	9,783.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,827.0	9,828.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/24/2011 12:00AM	MESAVERDE/			9,844.0	9,845.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,867.0	9,868.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			9,940.0	9,942.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			10,004.0	10,005.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			10,019.0	10,020.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			10,114.0	10,116.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/24/2011 12:00AM	MESAVERDE/			10,142.0	10,144.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



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Event: COMPLETION	Start Date: 10/20/2011	End Date: 11/2/2011
Active Datum: RKB @4,805.00usft (above Mean Sea Level)		UWI: NE/NW0/9/S/21/E/15/0/0/26/PM/N/834.00/W/0/2,620.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/20/2011	7:00 - 11:00	4.00	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 0 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 31 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 81 PS NO COMMUNICATION WITH SURFACE CSG BLEED OFF PSI. SWFNN MOVE T/ NEXT WELL.
10/21/2011	7:00 - 11:00	4.00	COMP	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWFNN
10/24/2011	7:00 - 18:00	11.00	COMP	36	B	P		FRAC STG 1)WHP 1735 PSI, BRK 4384 PSI @ 4.8 BPM. ISIP 3268 PSI, FG .76 CALC HOLES OPEN @ 36.7 BPM @ 6400 PSI = 61% HOLES OPEN. ISIP 3139 PSI, FG .75 NPI -129 PSI. MP 6564 PSI, MR 38.6 BPM, AP 6318 PSI, AR 37.1 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9898' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 2)WHP 1227 PSI, BRK 4516 PSI @ 4.7 BPM. ISIP 3423 PSI, FG .79 CALC HOLES OPEN @ 36.8 BPM @ 5277 PSI = 96% HOLES OPEN. ISIP 3276 PSI, FG .77, NPI -147 PSI. MP 6589 PSI, MR 49.8 BPM, AP 6305 PSI, AR 45.2 BPM PUMPED 30/50 MESH OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9706' P/U PERF AS PER PERF DESIGN. POOH.SWFNN
10/25/2011	6:45 - 7:00	0.25	COMP	48		P		HELD SAFETY MEETING: HIGH PRESSURE WITH NEW EMPLOYEES STAY AWAY FROM IRON WHILE PUMPING

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Active Datum: RKB @4,805.00usft (above Mean Sea Level)		UWI: NE/NW0/9/S/21/E/15/0/0/26/PM/N/834.00/W/0/2,620.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 18:00	11.00	COMP	36	B	P		<p>FRAC STG 3)WHP 2672 PSI, BRK 4640 PSI @ 4.8 BPM. ISIP 2859 PSI, FG .74 CALC HOLES OPEN @ 42.1 BPM @ 5985 PSI = 71% HOLES OPEN. ISIP 2907 PSI, FG .74, NPI 49 PSI. MP 6392 PSI, MR 52.8 BPM, AP 5811 PSI, AR 49.7 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9392' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 4)WHP 953 PSI, BRK 3877 PSI @ 4.7 BPM. ISIP 2532 PSI, FG .71 CALC HOLES OPEN @ 44.2 BPM @ 6186 PSI = 72% HOLES OPEN. ISIP 2725 PSI, FG .73, NPI 193 PSI. MP 6654 PSI, MR 50.3 BPM, AP 5730 PSI, AR 48.0 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9031' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 5)WHP 940 PSI, BRK 4978 PSI @ 4.8 BPM. ISIP 2078 PSI, FG .67 CALC HOLES OPEN @ 49.5 BPM @ 5670 PSI = 81% HOLES OPEN. ISIP 2561 PSI, FG .73, NPI 483 PSI. MP 6203 PSI, MR 50.3 BPM, AP 5507 PSI, AR 49.7 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8710' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 6)WHP 2201 PSI, BRK 2704 PSI @ 4.1 BPM. ISIP 2244 PSI, FG .71 CALC HOLES OPEN @ 49.9 BPM @ 5946 PSI = 77% HOLES OPEN. ISIP 2751 PSI, FG .76, NPI 451 PSI. MP 6247 PSI, MR 51.7 BPM, AP 5287 PSI, AR 49.8 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L.</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN,</p>

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Active Datum: RKB @4,805.00usft (above Mean Sea Level)			UWI: NE/NW/0/9/S/21/E/15/0/0/26/PM/N/834.00/W/0/2,620.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								<p>23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8412', P/U PERF AS PER DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 704 PSI, BRK 5028 PSI @ 4.7 BPM. ISIP 1893 PSI, FG .67. CALC HOLES OPEN @ 50 BPM @ 5133 PSI = 84% HOLES OPEN. ISIP 2511 PSI, FG .74, NPI 618 PSI. MP 5956 PSI, MR 50.7 BPM, AP 4860 PSI, AR 50.1 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L</p> <p>PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7850' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 8)WHP 460 PSI, BRK 2011 PSI @ 4.3 BPM. ISIP 1241 PSI, FG .60. CALC HOLES OPEN @ 49.6 BPM @ 5955 PSI = 61% HOLES OPEN. ISIP 2159 PSI, FG .72, NPI 918 PSI. MP 6053 PSI, MR 50.2 BPM, AP 5534 PSI, AR 49.7 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L</p> <p>PERF STG 9)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 7470' P/U PERF AS DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 9)WHP 1677 PSI, BRK 2202 PSI @ 3.8 BPM. ISIP 1717 PSI, FG .67. CALC HOLES OPEN @ 35.7 BPM @ 5766 PSI = 61% HOLES OPEN. ISIP 1595 PSI, FG .66, NPI -128 PSI. MP 6267 PSI, MR 50.3 BPM, AP 5082 PSI, AR 49.2 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L</p> <p>PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 7150' POOH. SWI. DONE FRACING THIS WELL.</p> <p>TOTAL SAND = 132,691 LBS TOTAL CLFL = 7016 BBLs MIRU, SPOT EQUIP, N/D WH, N/U 5K BOP, R/U FLOOR & TBG EQUIP, R/U HAL 9000 & FLOWLINE TO PIT, SPOT TBG TRAILER, P/U TBG, REMOVE THREAD PROTECTORS, TALLY & DRIFT TBG TO 3,800', SWI, SDFN. HSM, SLIPS, TRIPS & FALLS, P/U TBG, D/O PLUGS.</p>
10/31/2011	11:00 - 16:00	5.00	COMP	31	I	P		
11/1/2011	7:00 - 7:15	0.25	COMP	48		P		

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US ROCKIES REGION

Operation Summary Report

Well: NBU 921-15C2S BLUE		Spud Conductor: 6/8/2011		Spud Date: 6/17/2011	
Project: UTAH-UINTAH		Site: NBU 921-15C PAD			Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 10/20/2011		End Date: 11/2/2011	
Active Datum: RKB @4,805.00usft (above Mean Sea Level)			UWI: NE/NW/0/9/S/21/E/15/0/0/26/PM/N/834.00/W/0/2,620.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	COMP	31	I	P		<p>FINISH P/U TBG, REMOVE THREAD PROTECTORS, TALLY & DRIFT TBG TO KILL PLUG, R/U P/S, FILL TBG, BREAK CIRC. PRESS TEST BOP TO 3,000 PSI FOR 15 MIN, LOST 0 PSI, SURFACE CSG VALVE OPEN & LOCKED, START DRLG PLUGS.</p> <p>C/O 25' SAND, TAG 1ST PLUG @ 7,155' DRL PLUG IN 12 MIN. 500 PSI INCREASE RIH, CSG PRESS 50 PSI.</p> <p>C/O 30' SAND, TAG 2ND PLUG @ 7,450' DRL PLUG IN 10 MIN. 100 PSI INCREASE RIH, CSG PRESS 75 PSI.</p> <p>C/O 30' SAND, TAG 3RD PLUG @ 7,830' DRL PLUG IN 9 MIN. 400 PSI INCREASE RIH, CSG PRESS 200 PSI.</p> <p>C/O 25' SAND, TAG 4TH PLUG @ 8,412' DRL PLUG IN 10 MIN. 500 PSI INCREASE RIH, CSG PRESS 350 PSI.</p> <p>C/O 25' SAND, TAG 5TH PLUG @ 8,705' DRL PLUG IN 8 MIN. 400 PSI INCREASE RIH, CSG PRESS 300 PSI.</p> <p>C/O 30' SAND, TAG 6TH PLUG @ 9,031' DRL PLUG IN 9 MIN. 400 PSI INCREASE RIH, CSG PRESS 250 PSI.</p> <p>C/O 25' SAND, TAG 7TH PLUG @ 9,392' DRL PLUG IN 10 MIN. 400 PSI INCREASE RIH, CSG PRESS 300 PSI.</p> <p>LET WELL CLEAN UP FOR 30 MIN, DRAIN UP & WINTERIZE EQUIP, SWI, SDFN.</p> <p>HSM, SLIPS, TRIPS & FALLS, BLEEDING OFF PRESS, LANDING TBG</p>
11/2/2011	7:00 - 7:15	0.25	COMP	48		P		

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DEC 05 2011

DIV. OF OIL, GAS & MINING

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-15C2S BLUE	Spud Conductor: 6/8/2011	Spud Date: 6/17/2011
Project: UTAH-UINTAH	Site: NBU 921-15C PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 10/20/2011	End Date: 11/2/2011
Active Datum: RKB @4,805.00usft (above Mean Sea Level)	UWI: NE/NW0/9/S/21/E/15/0/0/26/PM/N/834.00/NW/0/2,620.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 12:00	4.75	COMP	44	C	P		<p>DEWINTERIZE EQUIP, SICP 2,100 PSI, OPEN WELL BLEED OFF PRESS, OPEN RAMS, FINISH D/O REMAINING 2 PLUGS, SURFACE CSG VALVE OPEN & LOCKED.</p> <p>C/O 25' SAND, TAG 8TH PLUG @ 9,706' DRL PLUG IN 9 MIN. 400 PSI INCREASE RIH, CSG PRESS 400 PSI.</p> <p>C/O 30' SAND, TAG 9TH PLUG @ 9,898' DRL PLUG IN 10 MIN. 600 PSI INCREASE RIH, CSG PRESS 450 PSI.</p> <p>PBTD @ 10,480', BTM PERF @ 10,144', RIH TO 10,353' NO TAG, 209' PAST BTM PERF W/ 326 JTS 2 3/8" L-80 TBG, LD 21 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 305 JTS 2 3/8" L-80, EOT 9,885.54'.</p> <p>RD POWER SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 2,500 PSI, LET BIT FALL FOR 20 MIN.</p> <p>TURN OVER TO FLOW BACK CREW, RD & MOVE TO NEXT WELL ON PAD.</p> <p>KB= 13' 4 1/16" WEATHERFORD HANGER= .83' TBG DELIVERED 314 JTS 305 JTS 2 3/8" L-80 = 9,669.51' TBG USED 305 JTS POBS= 2.20' TBG RETURNED 0 JTS EOT @ 9,885.54' (KEPT 9 JTS ON LOCATION FOR NEXT WELL)</p> <p>TWTR= 7,016 BBLS TWR= 1,800 BBLS TWLTR= 5,216 BBLS</p>

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DEC 05 2011

DIV. OF OIL, GAS & MINING

WELL DETAILS: NBU 921-15C2S

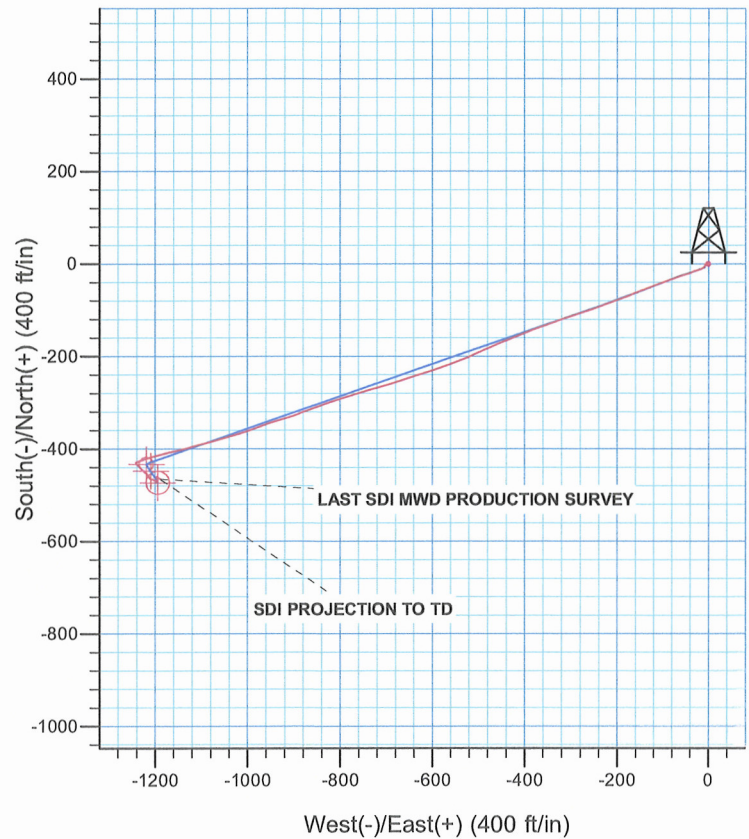
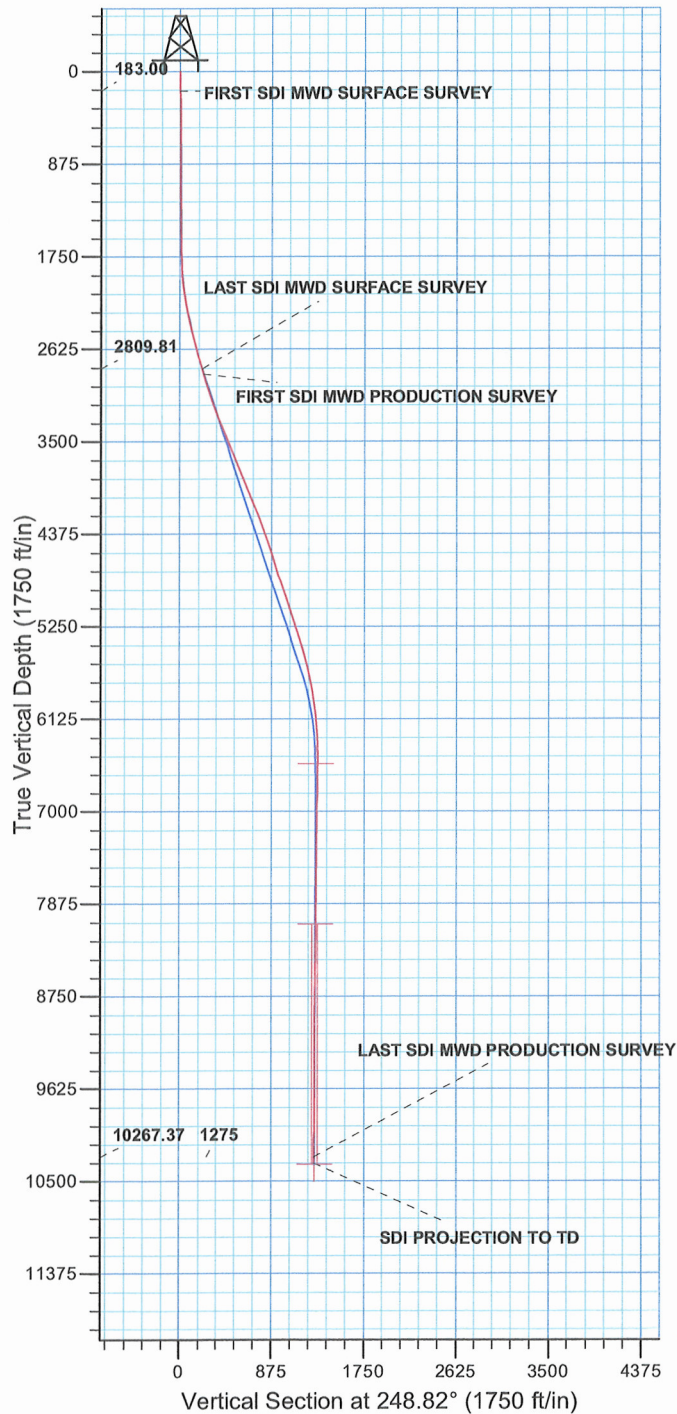
GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14544382.90	2049820.69	40° 2' 28.061 N	109° 32' 14.269 W



Azimuths to True North
Magnetic North: 11.10°

Magnetic Field
Strength: 52349.2snT
Dip Angle: 65.89°
Date: 2011/06/09
Model: IGRF2010



PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 15 T9S R21E
System Datum: Mean Sea Level

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DEC 05 2011

DIV. OF OIL, GAS & MINING

Design: OH (NBU 921-15C2S/OH)

Created By: RobertScott Date: 10:50, September 20 2011



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-15C PAD
NBU 921-15C2S

OH

Design: OH

Standard Survey Report

20 September, 2011



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DIV. OF OIL, GAS & MINING

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-15C PAD
Well: NBU 921-15C2S
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-15C2S
TVD Reference: GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
MD Reference: GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Project Uintah County, UT UTM12
Map System: Universal Transverse Mercator (US Survey Feet) **System Datum:** Mean Sea Level
Geo Datum: NAD 1927 - Western US
Map Zone: Zone 12N (114 W to 108 W)

Site NBU 921-15C PAD, SECTION 15 T9S R21E
Site Position: Northing: 14,544,382.90 usft Latitude: 40° 2' 28.061 N
From: Lat/Long Easting: 2,049,820.68 usft Longitude: 109° 32' 14.269 W
Position Uncertainty: 0.00 ft Slot Radius: 13.200 in Grid Convergence: 0.94 °

Well NBU 921-15C2S, 834 FNL 2620 FWL
Well Position +N/-S 0.00 ft Northing: 14,544,382.90 usft Latitude: 40° 2' 28.061 N
+E/-W 0.00 ft Easting: 2,049,820.68 usft Longitude: 109° 32' 14.269 W
Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 4,792.00 ft

Wellbore OH
Magnetics Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)
IGRF2010 2011/06/09 11.10 65.89 52,349

Design OH
Audit Notes:
Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00
Vertical Section: Depth From (TVD) (ft) +N/-S (ft) +E/-W (ft) Direction (°)
0.00 0.00 0.00 248.82

Survey Program Date 2011/09/20
From (ft) **To (ft)** **Survey (Wellbore)** **Tool Name** **Description**
5.00 2,832.00 Survey #1 SDI MWD SURFACE (OH) MWD SDI MWD - Standard ver 1.0.1
2,885.00 10,532.00 Survey #2 SDI MWD PRODUCTION (OH) MWD SDI MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00
183.00	0.57	209.91	183.00	-0.77	-0.44	0.69	0.32	0.32	0.00
FIRST SDI MWD SURFACE SURVEY									
273.00	0.86	231.13	272.99	-1.58	-1.19	1.68	0.43	0.32	23.58
366.00	0.58	295.67	365.98	-1.81	-2.16	2.67	0.86	-0.30	69.40
461.00	0.34	357.52	460.98	-1.32	-2.60	2.91	0.54	-0.25	65.11
556.00	0.50	279.78	555.98	-0.97	-3.02	3.17	0.57	0.17	-81.83
652.00	0.48	257.47	651.98	-0.99	-3.83	3.93	0.20	-0.02	-23.24
747.00	0.58	303.72	746.97	-0.81	-4.62	3.93	0.11	0.11	48.68

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DEC 05 2011

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-15C PAD
Well: NBU 921-15C2S
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-15C2S
TVD Reference: GL 4972' & KB 14' @ 4806.00ft (ENSGN 145)
MD Reference: GL 4972' & KB 14' @ 4806.00ft (ENSGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
842.00	0.07	299.99	841.97	-0.51	-5.07	4.91	0.54	-0.54	-3.93
937.00	0.26	271.92	936.97	-0.47	-5.33	5.15	0.21	0.20	-29.55
1,031.00	0.67	255.89	1,030.97	-0.60	-6.08	5.89	0.45	0.44	-17.05
1,127.00	0.39	270.12	1,126.96	-0.74	-6.95	6.75	0.32	-0.29	14.82
1,222.00	0.37	161.60	1,221.96	-1.03	-7.18	7.06	0.65	-0.02	-114.23
1,317.00	0.70	208.65	1,316.96	-1.83	-7.36	7.52	0.55	0.35	49.53
1,413.00	0.83	184.62	1,412.95	-3.04	-7.70	8.27	0.36	0.14	-25.03
1,508.00	0.73	170.81	1,507.94	-4.32	-7.66	8.70	0.22	-0.11	-14.54
1,604.00	1.03	209.80	1,603.93	-5.67	-7.99	9.50	0.68	0.31	40.61
1,698.00	2.23	229.04	1,697.89	-7.60	-9.79	11.87	1.39	1.28	20.47
1,793.00	2.45	240.57	1,792.81	-9.81	-12.95	15.62	0.55	0.23	12.14
1,887.00	4.05	248.16	1,886.66	-12.04	-17.78	20.93	1.76	1.70	8.07
1,982.00	5.32	254.82	1,981.34	-14.44	-25.15	28.67	1.45	1.34	7.01
2,077.00	7.22	249.85	2,075.77	-17.65	-35.00	39.01	2.08	2.00	-5.23
2,173.00	9.21	250.22	2,170.78	-22.33	-47.90	52.73	2.07	2.07	0.39
2,268.00	11.37	251.69	2,264.24	-27.84	-63.94	69.68	2.29	2.27	1.55
2,363.00	12.63	248.26	2,357.17	-34.63	-82.48	89.42	1.52	1.33	-3.61
2,456.00	12.76	250.17	2,447.89	-41.88	-101.59	109.86	0.47	0.14	2.05
2,551.00	14.48	250.11	2,540.22	-49.48	-122.63	132.22	1.81	1.81	-0.06
2,647.00	15.08	248.53	2,633.04	-58.13	-145.54	156.71	0.75	0.63	-1.65
2,742.00	17.64	251.81	2,724.19	-67.15	-170.72	183.45	2.86	2.69	3.45
2,832.00	18.27	249.77	2,809.81	-76.29	-196.91	211.17	0.99	0.70	-2.27
LAST SDI MWD SURFACE SURVEY									
2,885.00	17.06	247.86	2,860.31	-82.09	-211.90	227.25	2.53	-2.28	-3.60
FIRST SDI MWD PRODUCTION SURVEY									
2,976.00	16.69	249.94	2,947.39	-91.60	-236.54	253.66	0.78	-0.41	2.29
3,067.00	18.08	251.24	3,034.23	-100.63	-262.19	280.84	1.59	1.53	1.43
3,157.00	19.13	251.28	3,119.53	-109.85	-289.38	309.52	1.17	1.17	0.04
3,248.00	21.26	251.16	3,204.93	-119.97	-319.12	340.91	2.34	2.34	-0.13
3,339.00	21.71	250.22	3,289.61	-130.99	-350.57	374.22	0.62	0.49	-1.03
3,429.00	21.98	249.35	3,373.14	-142.56	-382.00	407.70	0.47	0.30	-0.97
3,520.00	23.39	247.86	3,457.10	-155.38	-414.67	442.79	1.67	1.55	-1.64
3,610.00	23.45	246.24	3,539.69	-169.32	-447.60	478.55	0.72	0.07	-1.80
3,701.00	22.95	245.66	3,623.33	-183.93	-480.34	514.35	0.60	-0.55	-0.64
3,791.00	22.34	246.19	3,706.39	-198.07	-511.98	548.96	0.71	-0.68	0.59
3,882.00	21.73	249.38	3,790.75	-210.98	-543.57	583.08	1.48	-0.67	3.51
3,973.00	21.47	249.90	3,875.36	-222.64	-574.97	616.57	0.35	-0.29	0.57
4,063.00	23.08	253.39	3,958.64	-233.34	-607.35	650.63	2.31	1.79	3.88
4,154.00	23.19	252.81	4,042.32	-243.74	-641.56	686.28	0.28	0.12	-0.64
4,244.00	22.21	253.06	4,125.35	-253.93	-674.76	720.93	1.09	-1.09	0.28
4,335.00	21.32	255.22	4,209.86	-263.16	-707.21	754.52	1.32	-0.98	2.37
4,426.00	20.04	251.80	4,295.00	-272.25	-738.02	786.53	1.93	-1.41	-3.76
4,516.00	18.22	251.93	4,380.03	-281.44	-766.05	815.98	2.02	-2.02	0.14

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-15C PAD
Well: NBU 921-15C2S
Wellbore: OH
Design: OH

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MD Reference: GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,607.00	17.63	253.32	4,466.61	-289.80	-792.77	843.93	0.80	-0.65	1.53
4,697.00	17.99	250.76	4,552.30	-298.30	-818.95	871.41	0.96	0.40	-2.84
4,788.00	16.89	250.12	4,639.11	-307.42	-844.65	898.67	1.23	-1.21	-0.70
4,879.00	17.23	249.70	4,726.11	-316.59	-869.72	925.36	0.40	0.37	-0.46
4,969.00	18.90	251.70	4,811.67	-325.80	-896.07	953.25	1.98	1.86	2.22
5,060.00	18.72	251.69	4,897.81	-335.01	-923.92	982.55	0.20	-0.20	-0.01
5,150.00	19.02	251.38	4,982.97	-344.23	-951.53	1,011.63	0.35	0.33	-0.34
5,240.00	17.76	250.72	5,068.38	-353.45	-978.39	1,040.00	1.42	-1.40	-0.73
5,331.00	17.67	251.20	5,155.06	-362.48	-1,004.56	1,067.67	0.19	-0.10	0.53
5,422.00	18.47	252.57	5,241.57	-371.25	-1,031.39	1,095.85	1.00	0.88	1.51
5,512.00	17.70	257.05	5,327.13	-378.58	-1,058.33	1,123.62	1.77	-0.86	4.98
5,603.00	17.05	255.06	5,413.98	-385.12	-1,084.70	1,150.57	0.97	-0.71	-2.19
5,693.00	15.53	254.90	5,500.36	-391.67	-1,109.08	1,175.67	1.69	-1.69	-0.18
5,784.00	13.81	255.24	5,588.39	-397.61	-1,131.35	1,198.58	1.89	-1.89	0.37
5,875.00	12.69	254.81	5,676.97	-402.99	-1,151.50	1,219.31	1.24	-1.23	-0.47
5,965.00	11.61	255.31	5,764.95	-407.88	-1,169.80	1,238.14	1.21	-1.20	0.56
6,056.00	10.79	255.15	5,854.22	-412.38	-1,186.89	1,255.71	0.90	-0.90	-0.18
6,146.00	9.06	255.24	5,942.87	-416.35	-1,201.88	1,271.12	1.92	-1.92	0.10
6,237.00	8.07	253.99	6,032.85	-419.94	-1,214.95	1,284.61	1.11	-1.09	-1.37
6,328.00	6.60	252.96	6,123.10	-423.23	-1,226.09	1,296.18	1.62	-1.62	-1.13
6,418.00	4.04	249.80	6,212.71	-425.84	-1,234.01	1,304.51	2.86	-2.84	-3.51
6,509.00	2.64	240.21	6,303.55	-427.99	-1,238.84	1,309.79	1.65	-1.54	-10.54
6,599.00	0.62	207.43	6,393.51	-429.45	-1,240.87	1,312.21	2.38	-2.24	-36.42
6,690.00	1.09	153.13	6,484.50	-430.66	-1,240.70	1,312.49	0.97	0.52	-59.67
6,781.00	1.43	148.20	6,575.48	-432.40	-1,239.71	1,312.20	0.39	0.37	-5.42
6,871.00	1.80	135.47	6,665.45	-434.36	-1,238.13	1,311.43	0.57	0.41	-14.14
6,962.00	1.94	142.28	6,756.40	-436.60	-1,236.18	1,310.42	0.29	0.15	7.48
7,053.00	1.75	126.26	6,847.35	-438.64	-1,234.12	1,309.24	0.60	-0.21	-17.60
7,143.00	1.85	134.92	6,937.31	-440.48	-1,231.98	1,307.91	0.32	0.11	9.62
7,234.00	1.85	139.93	7,028.26	-442.64	-1,230.00	1,306.84	0.18	0.00	5.51
7,324.00	1.68	123.08	7,118.22	-444.47	-1,227.96	1,305.60	0.60	-0.19	-18.72
7,415.00	1.85	136.36	7,209.17	-446.26	-1,225.83	1,304.26	0.49	0.19	14.59
7,506.00	1.96	140.30	7,300.12	-448.52	-1,223.82	1,303.20	0.19	0.12	4.33
7,596.00	1.41	124.37	7,390.09	-450.33	-1,221.92	1,302.09	0.80	-0.61	-17.70
7,687.00	1.57	126.53	7,481.06	-451.70	-1,220.00	1,300.79	0.19	0.18	2.37
7,777.00	1.64	130.63	7,571.02	-453.28	-1,218.03	1,299.52	0.15	0.08	4.56
7,868.00	1.75	136.53	7,661.98	-455.13	-1,216.08	1,298.38	0.23	0.12	6.48
7,958.00	1.85	149.77	7,751.94	-457.39	-1,214.41	1,297.63	0.47	0.11	14.71
8,049.00	2.08	154.25	7,842.88	-460.14	-1,212.95	1,297.26	0.30	0.25	4.92
8,140.00	1.57	142.80	7,933.84	-462.62	-1,211.48	1,296.79	0.69	-0.56	-12.58
8,230.00	0.97	119.98	8,023.81	-463.99	-1,210.07	1,295.97	0.86	-0.67	-25.36
8,321.00	0.54	86.71	8,114.81	-464.35	-1,208.98	1,295.08	0.66	-0.47	-36.56
8,411.00	0.79	95.54	8,204.80	-464.38	-1,207.94	1,294.12	0.30	0.28	9.81
8,502.00	1.06	107.41	8,295.79	-464.69	-1,206.51	1,292.90	0.36	0.30	13.04

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-15C PAD
Well: NBU 921-15C2S
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-15C2S
TVD Reference: GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
MD Reference: GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,593.00	1.23	118.66	8,386.77	-465.41	-1,204.85	1,291.62	0.31	0.19	12.36
8,683.00	1.41	123.49	8,476.75	-466.49	-1,203.08	1,290.35	0.23	0.20	5.37
8,774.00	1.67	121.91	8,567.71	-467.81	-1,201.02	1,288.91	0.29	0.29	-1.74
8,864.00	1.76	126.04	8,657.87	-469.31	-1,198.79	1,287.37	0.17	0.10	4.59
8,955.00	1.46	124.01	8,748.64	-470.78	-1,196.70	1,285.95	0.34	-0.33	-2.23
9,046.00	0.98	102.39	8,839.62	-471.60	-1,194.98	1,284.64	0.72	-0.53	-23.76
9,136.00	0.48	50.36	8,929.61	-471.52	-1,193.93	1,283.64	0.87	-0.56	-57.81
9,227.00	0.26	29.44	9,020.61	-471.10	-1,193.54	1,283.12	0.28	-0.24	-22.99
9,317.00	1.08	346.33	9,110.60	-470.10	-1,193.64	1,282.85	1.01	0.91	-47.90
9,408.00	0.91	1.73	9,201.59	-468.54	-1,193.82	1,282.46	0.35	-0.19	16.92
9,498.00	1.42	346.94	9,291.57	-466.74	-1,194.05	1,282.03	0.65	0.57	-16.43
9,589.00	1.41	347.53	9,382.54	-464.55	-1,194.55	1,281.70	0.02	-0.01	0.65
9,680.00	1.06	340.14	9,473.52	-462.67	-1,195.07	1,281.51	0.42	-0.38	-8.12
9,770.00	0.62	323.53	9,563.51	-461.49	-1,195.65	1,281.62	0.55	-0.49	-18.46
9,862.00	0.65	317.40	9,655.51	-460.71	-1,196.30	1,281.94	0.08	0.03	-6.66
9,952.00	0.35	22.59	9,745.50	-460.08	-1,196.54	1,281.94	0.66	-0.33	72.43
10,043.00	0.53	102.22	9,836.50	-459.91	-1,196.02	1,281.39	0.64	0.20	87.51
10,134.00	0.98	103.24	9,927.49	-460.18	-1,194.85	1,280.40	0.49	0.49	1.12
10,224.00	1.06	116.37	10,017.48	-460.72	-1,193.35	1,279.20	0.27	0.09	14.59
10,315.00	1.49	124.81	10,108.46	-461.77	-1,191.63	1,277.97	0.51	0.47	9.27
10,405.00	1.81	120.22	10,198.42	-463.16	-1,189.44	1,276.43	0.38	0.36	-5.10
10,474.00	2.29	124.37	10,267.37	-464.48	-1,187.36	1,274.97	0.73	0.70	6.01
LAST SDI MWD PRODUCTION SURVEY									
10,532.00	2.29	124.37	10,325.33	-465.79	-1,185.45	1,273.66	0.00	0.00	0.00
SDI PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
183.00	183.00	-0.77	-0.44	FIRST SDI MWD SURFACE SURVEY
2,832.00	2,809.81	-76.29	-196.91	LAST SDI MWD SURFACE SURVEY
2,885.00	2,860.31	-82.09	-211.90	FIRST SDI MWD PRODUCTION SURVEY
10,474.00	10,267.37	-464.48	-1,187.36	LAST SDI MWD PRODUCTION SURVEY
10,532.00	10,325.33	-465.79	-1,185.45	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

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Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-15C PAD
NBU 921-15C2S

OH

Design: OH

Survey Report - Geographic

20 September, 2011

Anadarko 
Petroleum Corporation

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DIV. OF OIL, GAS & MINING

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-15C2S
Project:	Uintah County, UT UTM12	TVD Reference:	GL 4972' & KB 14' @ 4806.00ft (ENSGN 145)
Site:	NBU 921-15C PAD	MD Reference:	GL 4972' & KB 14' @ 4806.00ft (ENSGN 145)
Well:	NBU 921-15C2S	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-15C PAD, SECTION 15 T9S R21E				
Site Position:		Northing:	14,544,382.90 usft	Latitude:	40° 2' 28.061 N
From:	Lat/Long	Easting:	2,049,820.68 usft	Longitude:	109° 32' 14.269 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.94 °

Well	NBU 921-15C2S, 834 FNL 2620 FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,544,382.90 usft	Latitude:	40° 2' 28.061 N
	+E/-W	0.00 ft	Easting:	2,049,820.68 usft	Longitude:	109° 32' 14.269 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,792.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/06/09	11.10	65.89	52,349

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	248.82	

Survey Program	Date	2011/09/20			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
5.00	2,832.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,885.00	10,532.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,544,382.90	2,049,820.68	40° 2' 28.061 N	109° 32' 14.269 W
5.00	0.00	0.00	5.00	0.00	0.00	14,544,382.90	2,049,820.68	40° 2' 28.061 N	109° 32' 14.269 W
183.00	0.57	209.91	183.00	-0.77	-0.44	14,544,382.12	2,049,820.25	40° 2' 28.053 N	109° 32' 14.275 W
FIRST SDI MWD SURFACE SURVEY									
273.00	0.86	231.13	272.99	-1.58	-1.19	14,544,381.30	2,049,819.52	40° 2' 28.045 N	109° 32' 14.285 W
366.00	0.58	295.67	365.98	-1.81	-2.16	14,544,381.05	2,049,818.56	40° 2' 28.043 N	109° 32' 14.297 W
461.00	0.34	357.52	460.98	-1.32	-2.60	14,544,381.53	2,049,818.10	40° 2' 28.048 N	109° 32' 14.303 W
556.00	0.50	279.78	555.98	-0.97	-3.02	14,544,381.88	2,049,817.68	40° 2' 28.051 N	109° 32' 14.308 W
652.00	0.48	257.47	651.98	-0.99	-3.83	14,544,381.85	2,049,816.87	40° 2' 28.051 N	109° 32' 14.318 W
747.00	0.58	303.72	746.97	-0.81	-4.62	14,544,382.02	2,049,816.08	40° 2' 28.053 N	109° 32' 14.329 W
842.00	0.07	299.99	841.97	-0.51	-5.07	14,544,382.30	2,049,815.62	40° 2' 28.056 N	109° 32' 14.334 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-15C PAD
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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-15C2S
TVD Reference: GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
MD Reference: GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
937.00	0.26	271.92	936.97	-0.47	-5.33	14,544,382.34	2,049,815.36	40° 2' 28.056 N	109° 32' 14.338 W
1,031.00	0.67	255.89	1,030.97	-0.60	-6.08	14,544,382.20	2,049,814.61	40° 2' 28.055 N	109° 32' 14.347 W
1,127.00	0.39	270.12	1,126.96	-0.74	-6.95	14,544,382.05	2,049,813.75	40° 2' 28.054 N	109° 32' 14.359 W
1,222.00	0.37	161.60	1,221.96	-1.03	-7.18	14,544,381.75	2,049,813.52	40° 2' 28.051 N	109° 32' 14.362 W
1,317.00	0.70	208.65	1,316.96	-1.83	-7.36	14,544,380.95	2,049,813.36	40° 2' 28.043 N	109° 32' 14.364 W
1,413.00	0.83	184.62	1,412.95	-3.04	-7.70	14,544,379.74	2,049,813.04	40° 2' 28.031 N	109° 32' 14.368 W
1,508.00	0.73	170.81	1,507.94	-4.32	-7.66	14,544,378.45	2,049,813.10	40° 2' 28.018 N	109° 32' 14.368 W
1,604.00	1.03	209.80	1,603.93	-5.67	-7.99	14,544,377.10	2,049,812.79	40° 2' 28.005 N	109° 32' 14.372 W
1,698.00	2.23	229.04	1,697.89	-7.60	-9.79	14,544,375.13	2,049,811.02	40° 2' 27.986 N	109° 32' 14.395 W
1,793.00	2.45	240.57	1,792.81	-9.81	-12.95	14,544,372.87	2,049,807.89	40° 2' 27.964 N	109° 32' 14.436 W
1,887.00	4.05	248.16	1,886.66	-12.04	-17.78	14,544,370.57	2,049,803.10	40° 2' 27.942 N	109° 32' 14.498 W
1,982.00	5.32	254.82	1,981.34	-14.44	-25.15	14,544,368.05	2,049,795.78	40° 2' 27.918 N	109° 32' 14.593 W
2,077.00	7.22	249.85	2,075.77	-17.65	-35.00	14,544,364.68	2,049,785.97	40° 2' 27.886 N	109° 32' 14.719 W
2,173.00	9.21	250.22	2,170.78	-22.33	-47.90	14,544,359.79	2,049,773.16	40° 2' 27.840 N	109° 32' 14.885 W
2,268.00	11.37	251.69	2,264.24	-27.84	-63.94	14,544,354.01	2,049,757.21	40° 2' 27.786 N	109° 32' 15.091 W
2,363.00	12.63	248.26	2,357.17	-34.63	-82.48	14,544,346.92	2,049,738.78	40° 2' 27.718 N	109° 32' 15.330 W
2,456.00	12.76	250.17	2,447.89	-41.88	-101.59	14,544,339.36	2,049,719.80	40° 2' 27.647 N	109° 32' 15.576 W
2,551.00	14.48	250.11	2,540.22	-49.48	-122.63	14,544,331.41	2,049,698.89	40° 2' 27.572 N	109° 32' 15.846 W
2,647.00	15.08	248.53	2,633.04	-58.13	-145.54	14,544,322.38	2,049,676.12	40° 2' 27.486 N	109° 32' 16.141 W
2,742.00	17.64	251.81	2,724.19	-67.15	-170.72	14,544,312.95	2,049,651.09	40° 2' 27.397 N	109° 32' 16.465 W
2,832.00	18.27	249.77	2,809.81	-76.29	-196.91	14,544,303.39	2,049,625.06	40° 2' 27.307 N	109° 32' 16.801 W
LAST SDI MWD SURFACE SURVEY									
2,885.00	17.06	247.86	2,860.31	-82.09	-211.90	14,544,297.34	2,049,610.16	40° 2' 27.249 N	109° 32' 16.994 W
FIRST SDI MWD PRODUCTION SURVEY									
2,976.00	16.69	249.94	2,947.39	-91.60	-236.54	14,544,287.42	2,049,585.68	40° 2' 27.155 N	109° 32' 17.311 W
3,067.00	18.08	251.24	3,034.23	-100.63	-262.19	14,544,277.98	2,049,560.18	40° 2' 27.066 N	109° 32' 17.641 W
3,157.00	19.13	251.28	3,119.53	-109.85	-289.38	14,544,268.31	2,049,533.15	40° 2' 26.975 N	109° 32' 17.991 W
3,248.00	21.26	251.16	3,204.93	-119.97	-319.12	14,544,257.71	2,049,503.58	40° 2' 26.875 N	109° 32' 18.373 W
3,339.00	21.71	250.22	3,289.61	-130.99	-350.57	14,544,246.17	2,049,472.31	40° 2' 26.766 N	109° 32' 18.777 W
3,429.00	21.98	249.35	3,373.14	-142.56	-382.00	14,544,234.08	2,049,441.08	40° 2' 26.652 N	109° 32' 19.182 W
3,520.00	23.39	247.86	3,457.10	-155.38	-414.67	14,544,220.73	2,049,408.63	40° 2' 26.525 N	109° 32' 19.602 W
3,610.00	23.45	246.24	3,539.69	-169.32	-447.60	14,544,206.24	2,049,375.92	40° 2' 26.387 N	109° 32' 20.025 W
3,701.00	22.95	245.66	3,623.33	-183.93	-480.34	14,544,191.10	2,049,343.43	40° 2' 26.243 N	109° 32' 20.446 W
3,791.00	22.34	246.19	3,706.39	-198.07	-511.98	14,544,176.45	2,049,312.03	40° 2' 26.103 N	109° 32' 20.853 W
3,882.00	21.73	249.38	3,790.75	-210.98	-543.57	14,544,163.01	2,049,280.66	40° 2' 25.975 N	109° 32' 21.259 W
3,973.00	21.47	249.90	3,875.36	-222.64	-574.97	14,544,150.84	2,049,249.45	40° 2' 25.860 N	109° 32' 21.663 W
4,063.00	23.08	253.39	3,958.64	-233.34	-607.35	14,544,139.61	2,049,217.25	40° 2' 25.754 N	109° 32' 22.079 W
4,154.00	23.19	252.81	4,042.32	-243.74	-641.56	14,544,128.65	2,049,183.22	40° 2' 25.651 N	109° 32' 22.519 W
4,244.00	22.21	253.06	4,125.35	-253.93	-674.76	14,544,117.92	2,049,150.19	40° 2' 25.551 N	109° 32' 22.946 W
4,335.00	21.32	255.22	4,209.86	-263.16	-707.21	14,544,108.15	2,049,117.89	40° 2' 25.459 N	109° 32' 23.364 W
4,426.00	20.04	251.80	4,295.00	-272.25	-738.02	14,544,098.56	2,049,087.24	40° 2' 25.370 N	109° 32' 23.760 W
4,516.00	18.22	251.93	4,380.03	-281.44	-766.05	14,544,088.92	2,049,059.36	40° 2' 25.279 N	109° 32' 24.120 W
4,607.00	17.63	253.32	4,466.61	-289.80	-792.77	14,544,080.11	2,049,032.78	40° 2' 25.196 N	109° 32' 24.464 W
4,697.00	17.99	250.76	4,552.30	-298.30	-818.95	14,544,071.19	2,049,006.74	40° 2' 25.112 N	109° 32' 24.801 W
4,788.00	16.89	250.12	4,639.11	-307.42	-844.65	14,544,061.64	2,048,981.20	40° 2' 25.022 N	109° 32' 25.131 W
4,879.00	17.23	249.70	4,726.11	-316.59	-869.72	14,544,052.06	2,048,956.28	40° 2' 24.931 N	109° 32' 25.453 W
4,969.00	18.90	251.70	4,811.67	-325.80	-896.07	14,544,042.43	2,048,930.09	40° 2' 24.840 N	109° 32' 25.792 W
5,060.00	18.72	251.69	4,897.81	-335.01	-923.92	14,544,032.76	2,048,902.39	40° 2' 24.749 N	109° 32' 26.150 W
5,150.00	19.02	251.38	4,982.97	-344.23	-951.53	14,544,023.08	2,048,874.94	40° 2' 24.658 N	109° 32' 26.505 W
5,240.00	17.76	250.72	5,068.38	-353.45	-978.39	14,544,013.43	2,048,848.24	40° 2' 24.567 N	109° 32' 26.851 W
5,331.00	17.67	251.20	5,155.06	-362.48	-1,004.56	14,544,003.97	2,048,822.21	40° 2' 24.478 N	109° 32' 27.187 W
5,422.00	18.47	252.57	5,241.57	-371.25	-1,031.39	14,543,994.76	2,048,795.53	40° 2' 24.391 N	109° 32' 27.532 W
5,512.00	17.70	257.05	5,327.13	-378.58	-1,058.33	14,543,986.98	2,048,768.72	40° 2' 24.318 N	109° 32' 27.879 W
5,603.00	17.05	255.06	5,413.98	-385.12	-1,084.70	14,543,980.01	2,048,742.46	40° 2' 24.254 N	109° 32' 28.218 W
5,693.00	15.53	254.90	5,500.36	-391.67	-1,109.08	14,543,973.07	2,048,718.19	40° 2' 24.189 N	109° 32' 28.531 W

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DIV. OF OIL, GAS & MINING

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
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Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,784.00	13.81	255.24	5,588.39	-397.61	-1,131.35	14,543,966.76	2,048,696.02	40° 2' 24.130 N	109° 32' 28.818 W
5,875.00	12.69	254.81	5,676.97	-402.99	-1,151.50	14,543,961.05	2,048,675.97	40° 2' 24.077 N	109° 32' 29.077 W
5,965.00	11.61	255.31	5,764.95	-407.88	-1,169.80	14,543,955.86	2,048,657.75	40° 2' 24.029 N	109° 32' 29.312 W
6,056.00	10.79	255.15	5,854.22	-412.38	-1,186.89	14,543,951.07	2,048,640.73	40° 2' 23.984 N	109° 32' 29.532 W
6,146.00	9.06	255.24	5,942.87	-416.35	-1,201.88	14,543,946.86	2,048,625.80	40° 2' 23.945 N	109° 32' 29.725 W
6,237.00	8.07	253.99	6,032.85	-419.94	-1,214.95	14,543,943.06	2,048,612.80	40° 2' 23.910 N	109° 32' 29.893 W
6,328.00	6.60	252.96	6,123.10	-423.23	-1,226.09	14,543,939.59	2,048,601.71	40° 2' 23.877 N	109° 32' 30.036 W
6,418.00	4.04	249.80	6,212.71	-425.84	-1,234.01	14,543,936.85	2,048,593.83	40° 2' 23.851 N	109° 32' 30.138 W
6,509.00	2.64	240.21	6,303.55	-427.99	-1,238.84	14,543,934.62	2,048,589.04	40° 2' 23.830 N	109° 32' 30.200 W
6,599.00	0.62	207.43	6,393.51	-429.45	-1,240.87	14,543,933.12	2,048,587.04	40° 2' 23.816 N	109° 32' 30.226 W
6,690.00	1.09	153.13	6,484.50	-430.66	-1,240.70	14,543,931.92	2,048,587.23	40° 2' 23.804 N	109° 32' 30.224 W
6,781.00	1.43	148.20	6,575.48	-432.40	-1,239.71	14,543,930.20	2,048,588.24	40° 2' 23.786 N	109° 32' 30.211 W
6,871.00	1.80	135.47	6,665.45	-434.36	-1,238.13	14,543,928.26	2,048,589.86	40° 2' 23.767 N	109° 32' 30.191 W
6,962.00	1.94	142.28	6,756.40	-436.60	-1,236.18	14,543,926.05	2,048,591.84	40° 2' 23.745 N	109° 32' 30.166 W
7,053.00	1.75	126.26	6,847.35	-438.64	-1,234.12	14,543,924.05	2,048,593.94	40° 2' 23.725 N	109° 32' 30.139 W
7,143.00	1.85	134.92	6,937.31	-440.48	-1,231.98	14,543,922.25	2,048,596.10	40° 2' 23.707 N	109° 32' 30.112 W
7,234.00	1.85	139.93	7,028.26	-442.64	-1,230.00	14,543,920.12	2,048,598.12	40° 2' 23.685 N	109° 32' 30.086 W
7,324.00	1.68	123.08	7,118.22	-444.47	-1,227.96	14,543,918.32	2,048,600.19	40° 2' 23.667 N	109° 32' 30.060 W
7,415.00	1.85	136.36	7,209.17	-446.26	-1,225.83	14,543,916.56	2,048,602.36	40° 2' 23.649 N	109° 32' 30.033 W
7,506.00	1.96	140.30	7,300.12	-448.52	-1,223.82	14,543,914.34	2,048,604.40	40° 2' 23.627 N	109° 32' 30.007 W
7,596.00	1.41	124.37	7,390.09	-450.33	-1,221.92	14,543,912.56	2,048,606.33	40° 2' 23.609 N	109° 32' 29.982 W
7,687.00	1.57	126.53	7,481.06	-451.70	-1,220.00	14,543,911.22	2,048,608.27	40° 2' 23.596 N	109° 32' 29.958 W
7,777.00	1.64	130.63	7,571.02	-453.28	-1,218.03	14,543,909.68	2,048,610.27	40° 2' 23.580 N	109° 32' 29.932 W
7,868.00	1.75	136.53	7,661.98	-455.13	-1,216.08	14,543,907.85	2,048,612.24	40° 2' 23.562 N	109° 32' 29.907 W
7,958.00	1.85	149.77	7,751.94	-457.39	-1,214.41	14,543,905.63	2,048,613.96	40° 2' 23.539 N	109° 32' 29.886 W
8,049.00	2.08	154.25	7,842.88	-460.14	-1,212.95	14,543,902.90	2,048,615.46	40° 2' 23.512 N	109° 32' 29.867 W
8,140.00	1.57	142.80	7,933.84	-462.62	-1,211.48	14,543,900.44	2,048,616.97	40° 2' 23.488 N	109° 32' 29.848 W
8,230.00	0.97	119.98	8,023.81	-463.99	-1,210.07	14,543,899.10	2,048,618.40	40° 2' 23.474 N	109° 32' 29.830 W
8,321.00	0.54	86.71	8,114.81	-464.35	-1,208.98	14,543,898.76	2,048,619.50	40° 2' 23.471 N	109° 32' 29.816 W
8,411.00	0.79	95.54	8,204.80	-464.38	-1,207.94	14,543,898.74	2,048,620.54	40° 2' 23.470 N	109° 32' 29.803 W
8,502.00	1.06	107.41	8,295.79	-464.69	-1,206.51	14,543,898.45	2,048,621.97	40° 2' 23.467 N	109° 32' 29.784 W
8,593.00	1.23	118.66	8,386.77	-465.41	-1,204.85	14,543,897.76	2,048,623.64	40° 2' 23.460 N	109° 32' 29.763 W
8,683.00	1.41	123.49	8,476.75	-466.49	-1,203.08	14,543,896.71	2,048,625.43	40° 2' 23.449 N	109° 32' 29.740 W
8,774.00	1.67	121.91	8,567.71	-467.81	-1,201.02	14,543,895.43	2,048,627.51	40° 2' 23.436 N	109° 32' 29.714 W
8,864.00	1.76	126.04	8,657.67	-469.31	-1,198.79	14,543,893.96	2,048,629.77	40° 2' 23.422 N	109° 32' 29.685 W
8,955.00	1.46	124.01	8,748.64	-470.78	-1,196.70	14,543,892.52	2,048,631.88	40° 2' 23.407 N	109° 32' 29.658 W
9,046.00	0.98	102.39	8,839.62	-471.60	-1,194.98	14,543,891.73	2,048,633.62	40° 2' 23.399 N	109° 32' 29.636 W
9,136.00	0.48	50.36	8,929.61	-471.52	-1,193.93	14,543,891.83	2,048,634.66	40° 2' 23.400 N	109° 32' 29.623 W
9,227.00	0.26	29.44	9,020.61	-471.10	-1,193.54	14,543,892.26	2,048,635.05	40° 2' 23.404 N	109° 32' 29.617 W
9,317.00	1.08	346.33	9,110.60	-470.10	-1,193.64	14,543,893.26	2,048,634.93	40° 2' 23.414 N	109° 32' 29.619 W
9,408.00	0.91	1.73	9,201.59	-468.54	-1,193.82	14,543,894.81	2,048,634.72	40° 2' 23.429 N	109° 32' 29.621 W
9,498.00	1.42	346.94	9,291.57	-466.74	-1,194.05	14,543,896.61	2,048,634.46	40° 2' 23.447 N	109° 32' 29.624 W
9,589.00	1.41	347.53	9,382.54	-464.55	-1,194.55	14,543,898.79	2,048,633.93	40° 2' 23.469 N	109° 32' 29.630 W
9,680.00	1.06	340.14	9,473.52	-462.67	-1,195.07	14,543,900.66	2,048,633.37	40° 2' 23.487 N	109° 32' 29.637 W
9,770.00	0.62	323.53	9,563.51	-461.49	-1,195.65	14,543,901.83	2,048,632.78	40° 2' 23.499 N	109° 32' 29.645 W
9,862.00	0.65	317.40	9,655.51	-460.71	-1,196.30	14,543,902.60	2,048,632.12	40° 2' 23.507 N	109° 32' 29.653 W
9,952.00	0.35	22.59	9,745.50	-460.08	-1,196.54	14,543,903.23	2,048,631.87	40° 2' 23.513 N	109° 32' 29.656 W
10,043.00	0.53	102.22	9,836.50	-459.91	-1,196.02	14,543,903.41	2,048,632.38	40° 2' 23.515 N	109° 32' 29.649 W
10,134.00	0.98	103.24	9,927.49	-460.18	-1,194.85	14,543,903.16	2,048,633.56	40° 2' 23.512 N	109° 32' 29.634 W
10,224.00	1.06	116.37	10,017.48	-460.72	-1,193.35	14,543,902.64	2,048,635.06	40° 2' 23.506 N	109° 32' 29.615 W
10,315.00	1.49	124.81	10,108.46	-461.77	-1,191.63	14,543,901.61	2,048,636.80	40° 2' 23.496 N	109° 32' 29.593 W
10,405.00	1.81	120.22	10,198.42	-463.16	-1,189.44	14,543,900.27	2,048,639.02	40° 2' 23.482 N	109° 32' 29.565 W
10,474.00	2.29	124.37	10,267.37	-464.48	-1,187.36	14,543,898.98	2,048,641.12	40° 2' 23.469 N	109° 32' 29.538 W

LAST SDI MWD PRODUCTION SURVEY

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-15C PAD
Well: NBU 921-15C2S
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-15C2S
TVD Reference: GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
MD Reference: GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,532.00	2.29	124.37	10,325.33	-465.79	-1,185.45	14,543,897.70	2,048,643.05	40° 2' 23.456 N	109° 32' 29.513 W

SDI PROJECTION TO TD

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
183.00	183.00	-0.77	-0.44	FIRST SDI MWD SURFACE SURVEY
2,832.00	2,809.81	-76.29	-196.91	LAST SDI MWD SURFACE SURVEY
2,885.00	2,860.31	-82.09	-211.90	FIRST SDI MWD PRODUCTION SURVEY
10,474.00	10,267.37	-464.48	-1,187.36	LAST SDI MWD PRODUCTION SURVEY
10,532.00	10,325.33	-465.79	-1,185.45	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

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